



Established in
ENGLAND - - 1859
AUSTRALASIA 1885

Registered as a Newspaper and
PUBLISHED WEEKLY AT
42 CANNON ST., LONDON, E.C.4

Telephone: 3617 CENTRAL (3 lines).
Telegrams: CHEMICUS, CANNON,
LONDON (charged as two words only).

No. 2,038. Vol. XCI.

SUBSCRIPTION (including the Diary and Text Book) at Home or Abroad.
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FEBRUARY 15, 1919

“Montserrat” Lime Fruit Juice AND CORDIALS

SEE OUR NEW PRICE LIST,
FEBRUARY 1.

EVANS SONS LESCHER & WEBB LTD.
LIVERPOOL, LONDON, and NEW YORK, U.S.A.

We offer for prompt delivery

BISMUTH SALTS.

MERCURIALS.

BROMIDES.

IODIDES.

BARBITONE.

PHENOLPHTHALEIN.

GUAIACOL & COMPOUNDS.

CREAM OF TARTAR.

SODA TART.

PARALDEHYDE.

PODOPHYLLIN.

QUININE.

THEOBROMINE.

MAY & BAKER, LTD., *Manufacturing Chemists,*
BATTERSEA, S.W. 11.

REDDGRAVE, BUTLER & CO.

ESSEX HOUSE, STRATFORD, E. 15.

Telephone : STRATFORD 799.

Paraffinum Liquidum B.P.

1914.

Paraffinum Molle Alb.

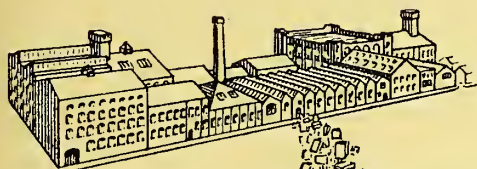
Paraffinum Molle Flav.

Paraffinum Liquidum Flav.

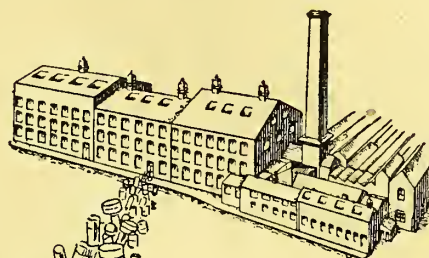
B.P.C. 1918.

SAMPLES & QUOTATIONS UPON APPLICATION.

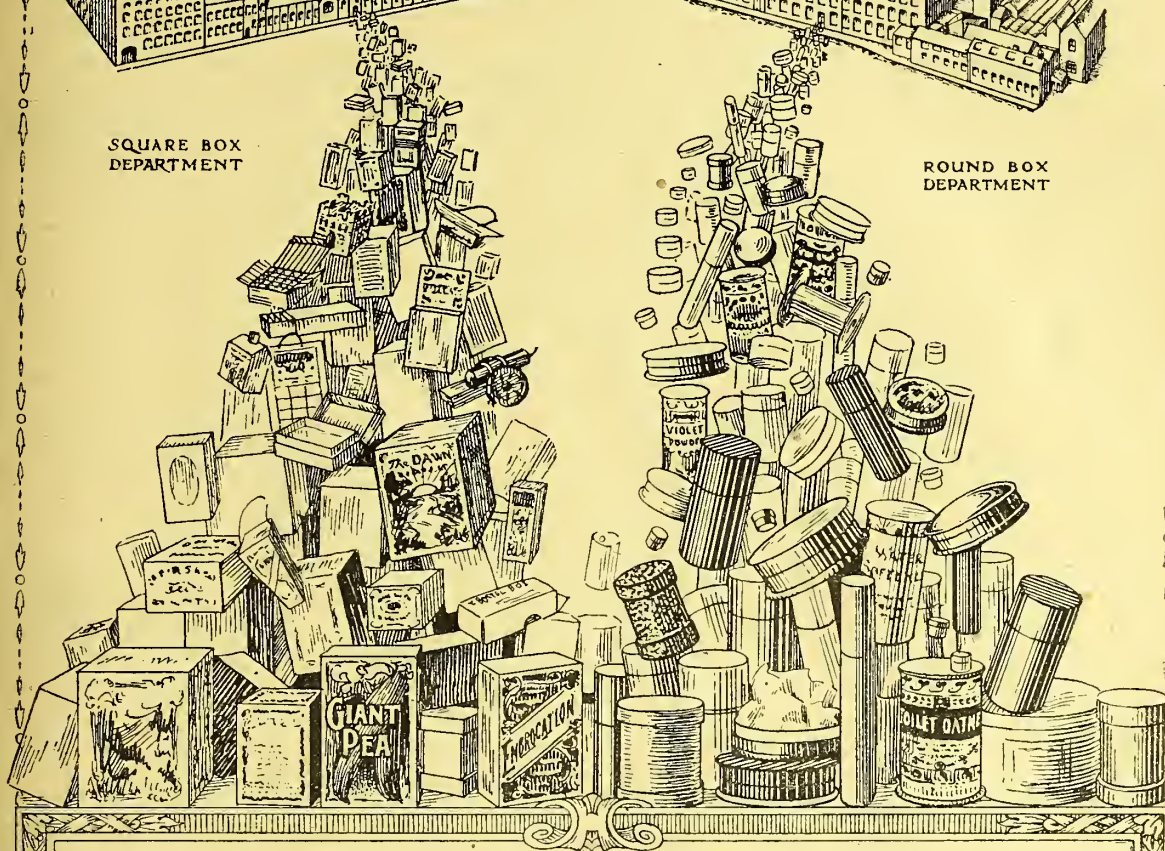
ESTABLISHED 1839.



SQUARE BOX
DEPARTMENT



ROUND BOX
DEPARTMENT



ROBINSON & SONS, LTD.,

CARDBOARD BOX MAKERS
TO THE CHEMIST TRADE.

OUR SPECIALITY IS—SMALL CARDBOARD BOXES

OF ALL SHAPES, SIZE, AND QUALITY.

CHESTERFIELD & LONDON.

ANNUAL OUTPUT :

NEARLY 200,000,000 BOXES.



What Mr. Horatio Bottomley — THINKS OF — **ALKIA SALTRATES** THE BEST OF ALL SALINES for Liver, Kidney, or Rheu- matic Disorders, Etc., Etc. — AND — **REUDEL BATH SALTRATES**

THE BATH PREPARATION PAR EXCELLENCE, cures Corns, and all Foot Troubles permanently, stops rheumatic or other aches and pains within ten minutes.

[Note:—It gives us very great pleasure to announce that the fearless and outspoken editor of "John Bull," whose readiness to praise anything good is only equalled by his promptness in condemning anything bad, has joined the long list of prominent men and women who have used our preparations with results so gratifying that they are only too glad to acknowledge the great benefits derived—SALTRATES, LTD.]

JOHN BULL

TELEPHONES GERRARD 9637
TELEGRAPHIC ADDRESS 9638

"HEROICALLY, LONDON"

The Manager,
The Saltrates Co., Ltd.,
214, Gt. Portland Street, W.

EDITORIAL OFFICES.

25th
July,
1917

93, LONG ACRE,

LONDON, W.C.

Dear Sir :-

Now that all German Spas are taboo, may I congratulate you on your Alkia Saltrates and Reudel Bath Saltrates, which to my mind (and body) beat Carlsbad into a cocked hat.

In future, with your help, I shall certainly support Home Industries by taking my cure on the spot.

Yours faithfully,

Horatio Bottomley

What is Alkia Saltrates?

Dissolved in plain water it gives you an exact reproduction of the essential medicinal constituents found in famous Spa waters.

The dose. Less than half of what you have been accustomed to take of ordinary salines.

The taste is pleasant, children cry for it. It makes a sparkling effervescent draught.

The effects. Stimulates the liver, flushes the kidneys, purifies the blood, corrects hyperacidity and other stomach disorders, and eliminates all uric acid or any other impurities from the entire system. Best of all anti-rheumatic agents. Guaranteed free from any depressing or other bad after effects.

The price. Only 2/9 a large bottle. Enough to last the whole family for weeks.



What is Reudel Bath Saltrates?

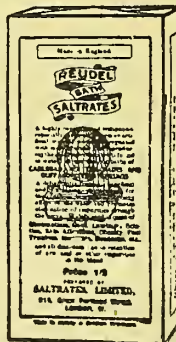
Dissolve this in plain hot water and you will have an exact reproduction of the highly medicated and oxygenated curative bathing waters found at celebrated Continental and other springs and spas.

The effects.—Softens and brings corns right out, root and all, so there is nothing left to sprout a new corn again, as when you merely cut the top off or burn it off with caustic liquids or plasters.

A **Saltrated Bath** will stop any rheumatic or other aches and pains in muscles or joints **within ten minutes**. Also its strongly antiseptic and healing qualities will cure **bad skin affections** quickly and permanently.

The price.—1/9 a half-pound or 2/9 a pound. Only a handful of the concentrated compound is required for a full bath, or a tablespoonful for a strong foot bath.

The above preparations can be obtained from any chemist. Complete satisfaction is guaranteed every user, or **MONEY BACK IN FULL IMMEDIATELY AND WITHOUT QUESTION**. Saltrates, Ltd., 214, Gt. Portland St., London, W.1.



TESTIMONY THAT MUST CONVINCE

Can anyone imagine Mr. BOTTOMLEY giving our products his unqualified endorsement—as shown on opposite page—unless convinced beyond doubt that they are absolutely the best obtainable!

NO WONDER!—Every sale always means a satisfied customer, and one who will thenceforth become a regular purchaser of our lines whenever anything of the kind happens to be needed.

Your customer will require no persuasion after he has once given our preparations a trial. He then **knows** they are just what he wants and is interested in no others. In other words—after you make the first sale our goods go on selling themselves. They are as near perfection in their respective fields as it is humanly possible to get them, regardless of cost or selling price.

ALKIA SALTRATES.

A widely advertised and quick selling product, which represents the maximum of possible efficiency in a saline, and the best value obtainable for the money. Being highly concentrated, exceptionally small doses are sufficient, and there is no trace of any salty or other unpleasant taste.

Sells at **2/9** a large bottle.
(P.A.T.A.).

REUDEL BATH SALTRATES.

The best selling and most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes. Especially recommended in cases of foot trouble, or rheumatic pains, stiffness, etc. Now being extensively advertised.

Sells at **1/9** and **2/9**.
(P.A.T.A.).

YOU CAN STOCK THESE LINES ON GUARANTEED SALE TERMS.

Carriage paid in United Kingdom on orders for three dozen, which may be assorted.

Handsome Showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

WE CAN GUARANTEE IMMEDIATE DELIVERY OF ORDERS FOR ANY QUANTITIES.

We are fortunate in being able to announce that foresight shown in the laying in of very heavy stocks of supplies in anticipation of the shortage which afterwards developed, **still enables us to guarantee full and prompt deliveries to all customers.** Therefore, despite of the present raw material difficulties and specially high drug costs, we are as yet making no advance in our prices, which remain on a pre-war basis.

HUGE ADVERTISING

FOR



PRICES :

1/6 size :
13/6 dozen
 (containing 7 packets).

Carton containing
 6 doz. 3d. packets,
11/- each.

5% Window-show allowance on a 50/- parcel
 (cash with order), or £5 parcel (credit terms);
 can be assorted with other lines.

ORDER A SUPPLY NOW

FROM

C. E. FULFORD, LTD.

CARLTON HILL, LEEDS.

The Arabic numerals (1 to 40) in this Index refer to Advertisements in the front of literary pages; the Advertisements following the literary pages are numbered in Roman numerals (I to xlviii).

[illegible]

OF ALL SCRIPTIONS

- | | |
|--------------------------|------------------------------|
| Air Beds | Hypodermics |
| Air Bed Bellows | Hot Water Bottles and Covers |
| Air Cushions and Pillows | Muff Warmers |
| Atomizers | Nursing Aprons |
| Bandages | Pessaries |
| Bed Pans | Rectal Tubes |
| Camp Pillows | Sheeting |
| Catheters | Sponge Bags |
| Corks | Syringes |
| Douches | Teats |
| Drainage Tubing | Urinals |
| Douche Tubing | Water Beds, |
| Gloves | Cushions and Pillows |
| Hosiery | Webbing. |

(Established
1847)

LONDON, S.W. 1

Telephone No : Regent 2935.

Beg to announce to the trade that they can now offer prompt delivery of the above goods from their large and varied stock in hand. Samples and prices will be forwarded on application.

Celebrated

HOOPER, STRUVE & CO., Ltd., "BRIGHTON SELTZER WATER," ^{Celebrated}

7 PALL MALL EAST. LONDON. S.W. 1.

USE COLLOIDAL DRUGS

CROOKES'

*All clinical reports confirm
the superiority of Colloidal
over molecular solutions.*



*are Colloidal Drugs, adopted
by the medical profession
and hospitals.*

SPECIAL COLLOIDS.

COLLOSOL ARGENTUM.

A non-toxic antiseptic, for all purposes, by tropical application. Indicated in affections of the Throat, Ear, Nose and Eye—especially in Influenza. Also by internal administration, in diarrhoea and intestinal disorders.

COLLOSOL SULPHUR BATHS.

Indicated in Rheumatism and skin affections. (See "British Medical Journal," 12th May, 1917.) These baths are more potent than any natural sulphur waters, contain no impurities, no free sulphuretted hydrogen, and do not injure the home bath.

COLLOSOL IODINE.

(1) Aqueous. (2) Pasta. (3) Oil. (4) Ointment.

Stainless and Non-irritant. Never causes iodism. Specially recommended by the Medical Profession, avoiding the disadvantages of Tincture of Iodine, and of Potassium Iodide.

COLLOSOL FERROMALT.

An ideal food-tonic, containing the best principles of meat and malt, in combination with colloidal iron, in which form alone iron is perfectly assimilable and avoids constipation and digestive troubles.

COLLOSOL SULPHUR OIL.

Specially prescribed for disorders of the scalp and loss of hair.

DOUSHOL.

An entirely non-toxic and non-corrosive colloidal douche, which, unlike the powerful intra-uterine douches, increases epithelial activity. Antiseptic, pleasant in odour, and may be used *ad libitum*.

COLLOSOL SUPPOSITORIES and PESSARIES.

Specially indicated in piles and leucorrhœa.

Also Suppositories and Pessaries of Cocaine and Quinine for special purposes.

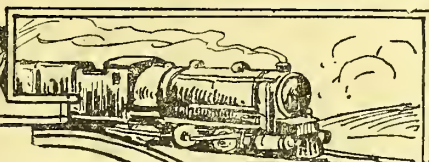
PRICES FULLY PROTECTED.

Profit to Chemists 33 $\frac{1}{3}$ % on outlay, or 25% on returns.

SEND FOR PARTICULARS AND LITERATURE.

COLLOSOLS are prepared for the Proprietors, Crookes' Collosols Ltd., at

THE CROOKES' LABORATORIES,
50 Elgin Crescent, LONDON, W. 11.



BRIDGE BRAND.

PHARMACEUTICAL AND PHOTOGRAPHIC PRODUCTS

*R. W. GREEFF & CO. offer at lowest prices
for prompt delivery from London and Liverpool stocks.*

Acetanilid	Lithol (Ichthyol substitute)
Acetyl Salicylic Acid	Methyl Salicylate
Barbitone	Paraldehyde
Bromide of Ammonium	Phenacetin
Bromide of Potassium	Phenazone
Bromide of Sodium	Phenolphthalein
Chloral Hydrate	Potassium Sulpho Guaiacolate
Cocaine	Pyrogalllic Acid
Eucalyptus Oil	Resorcin
Guaiacol Carbonate	Salicylic Acid
Homatropin	Salicylate of Soda
Hydroquinone	Salol
Isarol (best Ichthyol substitute)	Tannin Albuminate
Lecithin	Terpene Hydrate
Lithia Carbonate	Vanillin

*Enquiries solicited for our usual range of
Pharmaceutical and Photographic Products.*

R. W. Greeff & Co.

THAMES HOUSE, QUEEN ST. PLACE, LONDON, E.C.4

MANCHESTER BRANCH:

Lloyds Bank Buildings, King Street.

NEW YORK AGENTS:

R. W. Greeff & Co., Inc., 80, Maiden Lane.

NOTICE

THE THERMOGENE COMPANY desire to inform their friends that the unprecedented demand for Thermogene lately experienced has taxed the capacity of the Works to the utmost. Some delay in delivery has taken place. It is confidently hoped, however, that the trouble will soon be overcome. In the meantime buyers are informed that no advantage can be gained by diverting their orders to the Thermogene Company, as these will be returned with a request to apply to usual wholesaler.

Kay's Compound Essence of Linseed,
"LINSEED COMPOUND"
 (Regd. Trade Mark).
 For COUGHS and COLDS.
 On the P.A.T.A. List.

"KAY'S TIC PILLS."
"MOUNTAIN FLAX PILLS"
 Linum Catharticum (Regd. Trade Mark).

"COAGULINE" & "TENASITINE"
CEMENTS.

"ORBITE"
 Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and
FLYGUMS.

Sole Makers :—
KAY BROTHERS LTD.,
STOCKPORT.

BRITAIN'S SUPREMACY

has once again been proved and more firmly established. To the intense discomfiture of the Germans "Britannia still rules the Waves." "Rodine" routs the rats quite as effectively. It is the rat poison that does things. Users everywhere testify to



RODINE'S SUPREMACY

MR. IRVING, Chemist, Newton Stewart, writes :—

"Rodine" has been successful when the several Virus have failed. In one case I know of, 12 tubes Virus did no good and two 1/- "Rodine" cleared out all the rats."

Sole Maker—

HARLEY,
 Manufacturing Chemist,
 PERTH, SCOTLAND.

Export Agents—
 TOZER, KENSLEY & MILLBOURN, LTD.,
 84 Fenchurch Street, London, E.C. 3.



STOVAIN

THE LEAST TOXIC OF LOCAL ANÆSTHETICS
USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches,
nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly
in practically unlimited quantities from the manufacturers :

LES ETABLISSEMENTS POULENC FRÈRES
92, RUE VIEILLE DU TEMPLE, PARIS.



REPUTATION COUNTS.

"Camilatone" Camomile Tonic SHAMPOOS

are the most popular hair beautifying preparations on the market.

PROFITABLE LINES.

Once sold, always asked for.

1/- line, for brightening only, 7/- per doz.
5/6 " " " 42/- "
2/- " for warmer shades 14/- "
5/6 " " 42/- "
1/6 " for the Nursery 10/- "
5 packets in box.

Supplied direct by

The CAMOMILE TONIC Co.
16 Lichfield Rd., Cricklewood, N.W.2

'Ongard' Safety Pins

Guarded
Coil



RUST
PROOF.

For Surgical & Nursery Purposes.

SOLE MANUFACTURERS
GEORGE GOODMAN LTD.,
BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD.,
70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

"Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer
on INITIAL DIRECT ORDERS (One parcel only):-

1 1/2 dozen 7 1/2d. selling for 11 3
4 " 1/- " " 9 0

For 10/- cash with order, carriage paid. 20 3
7 1/2d. and 1/- " " 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and
1 doz. 1/- size bonus for window display, showing
38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists
LOWER UNION ST., BRISTOL.

Maw's Page.

S. MAW · SON & SONS · LTD
7/12, ALDERSGATE ST. LONDON, E.C.1, ENGLAND.

No. 383.

Feb. 15, 1919

Your Share.

The demobilisation speed-up means that thousands of men are being daily released from the Navy and Army. Home; to them, is a tangible thing once more.

The transformation from khaki to civilian surroundings necessitates, in most cases, a considerable initial outlay for peace-time equipment.

Every man leaves his discharge centre with £2 in his pocket. Within a month he draws from the Government, including his gratuity, about £18, most of it earmarked for prompt expenditure upon personal needs.

The tailor, the outfitter, the hatter, the bootmaker—each obtains his share of custom from the discharged soldier and sailor. We think the present time offers a unique opportunity to exploit the Service of the Pharmacy.

Why not a Demobilisation Window?

The practical campaign kit, designed for rough use, is not compatible with the requirements of the average man who, after facing the hardships of war-time, is anxious for an opportunity to give expression to his personal tastes in the little things that matter.

There are so many toilet requisites essential to the newly-demobilised man that a very attractive display could be made: tooth brushes, shaving brushes, soaps, dentifrices, hair brushes, strops, razors—anything that meets a man's wants

There are thousands of released fighting men who have been out of the country for three or four years. They have gone short of many comforts. They now want the best that money can buy. They will seek quality—and 'Maw Quality' is ready to give just that satisfaction that will make your casual customer a regular customer. With nearly 40,000 troops being demobilised in a day, it means that £5,000,000 is put in circulation by the men every week. Why not direct a little of it—just your share—into your Pharmacy? We can help you.

Capsule



First
'Parex'
Peace
Line!

'PAREX' HAIR POMADE

Every pot of 'Parex' (Regd.) Hair Pomade sold means good profit for you and good value for the customer, and it doesn't take long to sell!

'Parex' Hair Pomade is a splendid stimulant for the hair roots, put up in handsome containers, and—but you know all about 'Parex' perfection!

P.S.—Just the thing for the window if you are adopting 'Capsule's' suggestion in column one.

20/-
DOZEN.

GLYCERINE SYRINGES.

IN GLASS, WITH VULCANITE
PISTON AND MOUNTS:

2 dr. 15/-, ½-oz. 18/-, 1-oz. 24/- doz.

ALL-PEWTER, 12/- DOZEN
(Limited Supply).

ALL-GLASS, 15/6 DOZEN
(Limited Supply).

Here is one of those reliable lines that makes a perusal of 'Maw's Page' worth while. The prices are right, too.



HOURS OF BUSINESS: 8.30 a.m.—5.30 p.m.

CLOSE AT 1 p.m. SATURDAYS.

"MAW'S—THE HOUSE OF THE MOMENT."

TELEPHONE:
CITY 7
PRIVATE
BRANCH
EXCHANGE

TELEGRAMS:
ELEVEN
CENT
LONDON

CABLES:
ELEVEN
LONDON

CODE:
A:B:C
4TH & 5TH
EDITION

Langley-Smith & Co.

Castor Oils, *Medicinal,
Lubricating.*

Colza Oils, *Best Pure,
Prepared.*

Linseed Oils,

*Best Raw,
Double Boiled,
Refined.*

VEGETABLE OILS

Turpentine,
Best Pure Spirits.

Substitutes,
Best Grades.

Samples and Prices on Application.

**14-20 St. Mary Axe
London, E.C. 3**

Telegrams—"Tallowdom London."

Tel. No.—Avenue 3820.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. **ESTABLISHED 1794.**

SAMUEL THORNLEY, LTD., BIRMINGHAM

EUCALYPTUS OIL (RECTIFIED).

Eucalyptol Content ... 70/80%
Optical Rotation ... 0 to 1
Specific Gravity ... '919 to '928

Absolutely Free from Phellandrene.

Quotations by cable, Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address—
439 Flinders Lane, Melbourne.

Cables—"Burnside Company,
Melbourne."

PURE ESSENTIAL OIL OF HOP.

Singly and fractionally distilled.

HIGHEST CONCENTRATION AND PURITY GUARANTEED.

Prices, samples and information
from the distillers:—

WHITE, TOMKINS & COURAGE, LTD.

HEAD OFFICE:

48 Mark Lane, LONDON, E.C. 3,

And at
LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING

MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL"

Tel. 1039 CENTRAL

And of ST. JOHN'S, N.F.

Established 1780.

Vaseline

Trade Mark Registered

PREPARATIONS.

Pomade, in 1 gross boxes, screw cap	Per Gross	35/11
" " $\frac{1}{4}$ " " " "		40/4
Perfumed White, Blue Seal " "	Per Doz	6/6
" " No. 1 " "		11/3
" " Glass Stopper		17/7

Delicately perfumed, especially adapted for Toilet purposes and as a dressing for the hair.

Chesebrough Manufacturing Co.,
42 Holborn Viaduct, London, E.C.1.

*"Less than a drop
is sufficient"*

Zenobia Condensed Perfumes are so highly concentrated that less than a drop is sufficient to give a lasting yet delicate fragrance.

But how can one apply "less than a drop?" By momentarily inverting the bottle and then lightly touching the article to be perfumed with the moistened stopper. The ordinary stopper found with Zenobia Condensed Perfumes is much more economical than the rod stopper, which applies more perfume than necessary.



ZENOBIA

CONDENSED PERFUMES

This explanation, given at the time of sale, will assist in establishing Zenobia Condensed Perfumes as favourites with the public. Besides being so economical, they have the true flower fragrance always associated with the name of Zenobia—a fragrance that is unequalled for purity and charm.

The Retail Prices are 3/-, 6/- and 12/6 per bottle.

Trade Prices are 27/-, 54/- and 108/- per dozen, less usual discount

ZENOBIA, Ltd. Wholesale, Manufacturing and Export Perfumers,
Loughborough, England.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

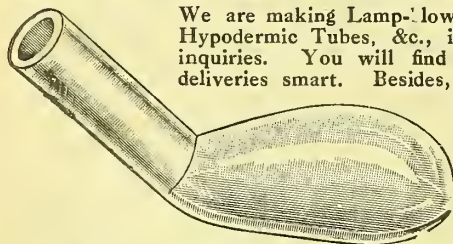
AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.

Newcastle-on-Tyne and Cardiff.

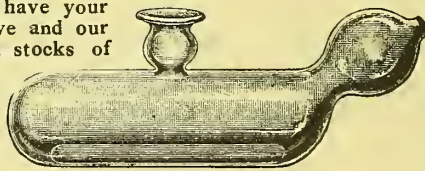
JULES LANG & SON

Sole Proprietor :
FERNAND RENE LANG



We are making Lamp-glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and our deliveries smart. Besides, we also have varied stocks of Glass Bottles.

Send us your inquiries and ask for our Stock List.



Nasal Douche

Telegrams: "Assorted, Nordo, London."

Telephones: North 1344-5 (2 lines).

Charlton Works, Charlton Place - - ISLINGTON, LONDON, N. 1.

PLATE
&
SHEET

GLASS

OF
EVERY
Description.

*Plate Glass with Polished
Edges for Surgical Tables, &c.*

GLASS SHELVES, MIRRORS, &c.

Bevelling, Polishing, Silvering, Glazing, &c. &c.

JOHN M. NEWTON & SONS, LTD.

20, 21, 22 & 23 Charles St., Hatton Garden, London, E.C. 1

Established 1839.

Chemists' Overalls Gardiner & Co.

We supply protective overalls and aprons in any colour or style required. They are made by experienced hands for all branches of the chemical trade.

Keenest Quotations sent on request, or a special representative will be pleased to call.

Head Office: **Gardiner & Co. (The Scotch House) Ltd.**
1 Commercial Road, E. 1.

Phone: 6650 Ave.

Plain Reason !

PAGE 15
AYRTON'S

P.A.T.A. FACE VALUE assures to the distributor a reasonable margin of profit, which every reasonable manufacturer recognises is just and due.

The recognition of what is just and due on the part of the manufacturer and the distributor means a more efficient service.

EFFICIENT SERVICE is a 1919 necessity. "Face Value" and 1919 should coincide.

We hope to issue in a future announcement a list of the Manufacturers who have "joined up" subsequent to the "Face Value" Campaign.

This space is given
to the Face Value
cause by—

AYRTON, SAUNDERS & Co. Ltd.
LIVERPOOL

CROSFIELDS' CHEMICALLY PURE GLYCERINE. PYRAMID BRAND.



The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 $\frac{1}{2}$, 28 $\frac{1}{2}$ & 56 $\frac{1}{2}$ TINS. (WOODEN CASES.)
1, 2 $\frac{1}{2}$, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD Chemical Manufrs. WARRINGTON.

D.D.D. Prescription

NOTICE TO THE TRADE.

At the request of a large number of our customers throughout the country, we have, from Jan. 1, 1919, fixed the retail price of D.D.D. Prescription at Face Value,

viz : 2/9 5/- 12/-

We doubled our advertising appropriation in 1918 with more than double turnover. In 1919 we will double our 1918 advertising.

There is no risk in stocking D.D.D. Prescription. We will take back *all* our goods, at *any* time, at *full* invoice price, and will pay carriage back.

In every way, ours is a clean profit-making proposition to the Retail Chemist.

D.D.D. Co., Ltd.

3, 5, 7 Fleet Lane, London, E.C. 4.

WE ADVISE YOU TO STOCK OUR "MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the F.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,
20 HIGHGATE ROAD, LONDON, N.W. 5

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BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)

Bay

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Telegrams: "LANDSLOH LONDON."
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AND "POPPŒA" PREPARATIONS.

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Booklets - - - 8d. & 1/4
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NEW PAPIER POUDRÉ PRICES.

In WHITE or RACHEL TINTS, 4d. & 6d. size Booklets @ 2/8 & 3/9 per doz. respectively.

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SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

NEAT 1/4 MIRROR CASES, containing pads of PAPIER POUDRÉ, 10/- per doz. net.

REFILLS to these MIRROR CASES 2/8 „ „

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NEW PRICES.

ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 8d. and 1/4 each. IN MIRROR CASES, 1/4 each, 10/- per doz. net.

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Refills, 3/9 per doz. net.

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**A DAINY BRITISH PERFUME
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Established - 1749.

Prices: 17/- 30/- 54/- 78/- 136/- doz. 21/- each

RETAIL P.A.T.A. 2/- 3/6 6/6 9/- 16/- each 30/- each

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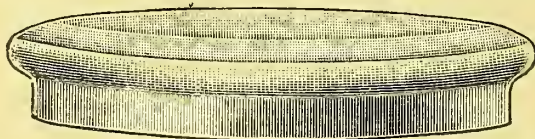
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LABELS for Perfumery of all kinds

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CELLULOID CAPS

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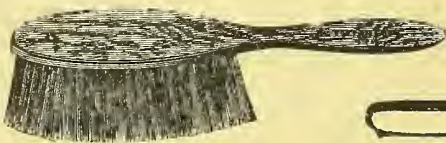
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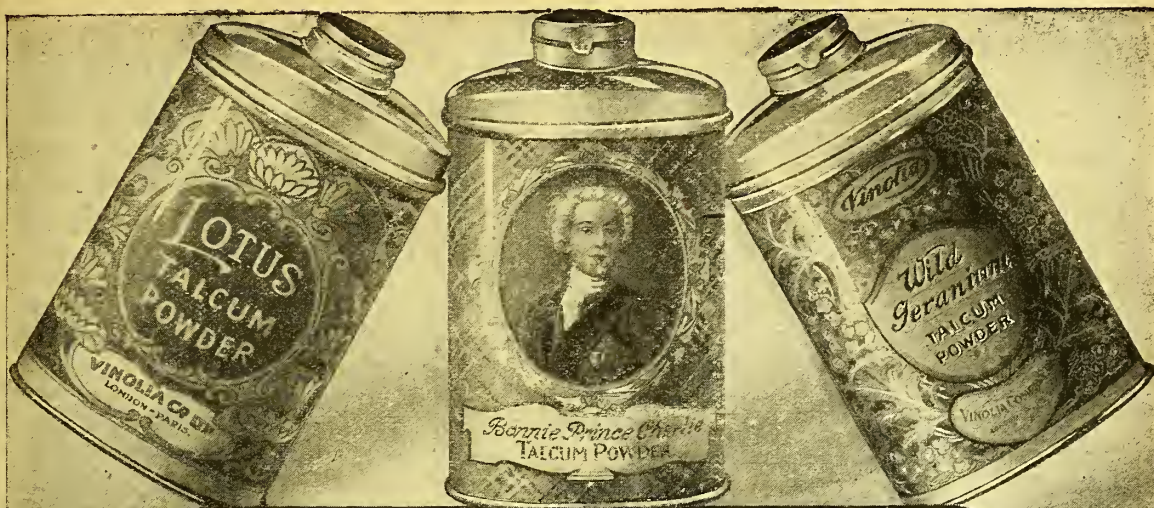
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Works: WALTHAMSTOW, ESSEX; and at ISLINGTON, N.

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Royal Vinolia, 1/- & 1/6. Drums, 1/3.
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PROFITABLE and strikingly effective counter and window displays are always available to the Pharmacist who carries good stocks of Vinolia Talcum Powders.

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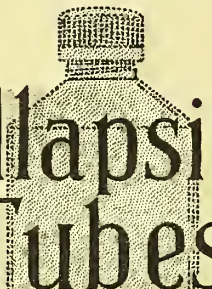
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Collapsible Tubes

Arrangements for increase of plant
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In the meantime inquiries for
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GATES' BOTTLE CAPPING SKINS



SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These
Skins are damp and **READY FOR USE.**
The raw material for Baudruche manufac-
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this new production on the market in its
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as Split skins and equal in appearance.

"Mine beat
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*Sole Pioneer and Only
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LESLIE GATES
HAILSHAM, SUSSEX.

Another New Specialty.—Try my
**TRANSPARENT SHEEP BAUDRUCHE
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THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.




STIPENDUM CORK STOPPERS

in
all sizes
suitable for
**KALIS, CITRATES,
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STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS
PASTES, AND OINTMENTS.
GREASE PROOF.

For Samples & particulars apply to
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EVEN WHEN
UPSIDE DOWN
the contents do
not leak if the
bottle is capped
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SEMREH

BOTTLE CAPS.
They provide a
Hermetic Seal.

**THE VISCOSE
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BROMLEY : KENT.

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(A. Jaurand, Orleans).

PURE RICE STARCH POWDER.
CONFECTIONERS' COLOURS.
ANILINE DYES for all purposes.

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**CHAPOTEAUT'S
CAPSULES of
PHOSPHOGLYCERATE
of LIME.**

**THE BEST TONIC FOR
FORTIFYING AND BUILDING UP
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*Sold by all Chemists.
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MORRHUOL CHAPOTEAUT



CAPSULES

MORRHUOL DE CHAPOTEAUT
is extracted from cod-liver oil, and
contains all its efficacious proper-
ties without the disagreeable taste.

*It cures Coughs, Bronchitis and Catarrh,
restores the appetite, and gives force to
feeble persons.*

SOLD BY ALL DRUGGISTS.

**CHANDRON'S
DROPS**

(Gouttes des Colonies)

**A harmless antiseptic
preventative against CHOLERA-
FERMENTATION - INDIGESTION
and other intestinal disturbances.**

SOLD BY ALL CHEMISTS

*I find the odor exquisite and
well adapted to have a subtle
effect on the mind. Very pleasant.
Mary Garden*

**PARFUM
MARY
GARDEN
RIGAUD
PARFUMEUR
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SAM^L LAMBERT & CO.,

14 MINCING LANE, LONDON, E.C.

Importers and Exporters.

First hands for all

Estd. 1870.

CRUDE DRUGS & ESSENTIAL OILS.

A few Specialities :—

ARABIC GUMS, CASCARA SAGRADA, ERGOT, CITRIC ACID, COD LIVER OIL, CREAM OF TARTAR, GLYCERIN, HONEYS, MESSINA-ESSENCES, OLIVE OIL, PEPPERMINT OIL, QUININE, QUICK-SILVER, RHUBARB, SARSAPARILLA, SHELLAC, TURPENTINE.

Sole Agents for :

Oils : Lemon, Bergamot, Orange ; Terpeneless Oils : Lemon, Bergamot, Orange.—*Fratelli de Pasquale & Co., Messina.*
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More business-larger profits.

THE extensive advertising of MOVOL is creating a demand which grows bigger every day.



Advertisements are appearing in leading National publications and Fashion periodicals, telling housewives that Iron-mould, Ink-stains and Fruit-stains are no longer immovable, and that



is sold by Chemists everywhere. Are you participating in the profits?

Mail a P.C. now for trial stock and display material to

W. EDGE & SONS, Ltd.
BOLTON, LANCs.

(The Drummer Dye People.)

BRITISH ODOL



Send for Price List and Trading Terms.

Revised Retail Prices.

Grand Double Flask

5/3 Full-size Bottle

3/- Half-size Bottle

1/9

ODOL

Chemical Works, BERKHAMSTED.

C.V. & S. 12.

Lead from Strength!

9/- SHAVING POWDER Doz

54/- COAL TAR SOAP Gross
Superfatted and detergent in box

9/- SHAVING STICK Doz

40/- TOILETS Gross ASSORTED

72/- BATH ROUNDS 5 1/2 ozs

6 IN A BOX
Cologne, Verbena, Lavender, Rose, Glycerine & Cucumber, Violet.

13 to doz Gross lots

12 IN A BOX

3 IN A BOX

5 the lb

MIDGLEY'S
Pure Superfatted Soap

MIDGLEY'S
EMOLLIENT SHAVING STICK

MIDGLEY'S
BATH SOAP

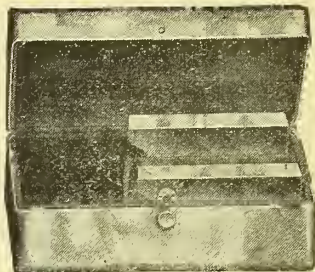
No Apology

is necessary for quoting the above well-known Bridge maxim, because there is much in common between Scientific Bridge and Scientific Business. In both there is a flavour—a zest—a *joie de vivre*—for the keen player which is denied the unversed or apathetic participant.

The game is never the same; the campaign not always to the lucky; the result seldom foregone, and in both philosophy has its place.

Only in the one have you—to an extent—the choice of cards, and believing we hold a strong hand we invite our fellow-players to participate in these.

MIDGLEY'S Pharmacist Soap Makers **MANCHESTER** Estd. 1833



SAFETY RAZORS

British Made.

Numerous patterns, suitable for all markets.
English or Foreign catalogues on application.
We are the largest makers in Great Britain.

ROWLAND HODGES Ltd., Birmingham, Eng.

Branch Offices: LONDON (Turner, Ryalls & Co., Ltd., Agents), 64 Basinghall Street, E.C.; GLASGOW, 52 St. Enoch Square

Safety - Razor BLADE ECONOMY.

SAFETY RAZOR BLADES SHARPENED.

Equal	Trade	6 ^{D.}	Terms	Any
to New	PER	DOZ.		Style
Satisfaction Guaranteed.			Window Bills Gratis.	

LIVER RAZOR CO., 77^A Dale St., Liverpool

ANOTHER HOME ARTICLE OF GREAT UTILITY.

"LUTON"
Household
Dyes

FOR HOME DYEING.

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

A standard range of 12 Colours; other shades supplied.
IN PACKETS, 2d., 3d. and 6d. each, and in Bulk.

Pattern Book. Write for Terms and Patterns.

WHITAKER & CO., COLOUR WORKS,
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London Depot: 60-62 Clerkenwell Road, E.C.

Telegraphic Address: "Dullette Kendal." Telephone No. 214.

ESTABLISHED 1878.

Proprietors of the "Luton" Straw Hat Dyes.



1/-

Make your
old Hat a
new one.

In bottles, 1/-
each, in separate
neat cartons,
with suitable brush.

These Dyes
are a distinct
invention,
dyeing the
straw without
an objectionable
varnished
appearance,
and producing
the effect of
new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS.
ALSO LEAFLET OF TESTIMONIALS.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS,
KENDAL, ENG.

London Depot: 60-62 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export

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Sale reserved exclusively to Chemists.



"DUCHESS" TOILET SOAP

Regd.

4^D. TABLETS.

Price Protected.

No cutting.

Send for Price List to

"ERASMIC" PERFUMERS, WARRINGTON.

KO-TAL-KO

IS ASKED FOR EVERY DAY
BY YOUR CUSTOMERS

Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deserved profit, and you are working on sound business all the time.

NOTE TRADE TERMS (P.A.T.A.)—

5/- Size 48/- per dozen
12/6 " 112/6 "

J. HART BRITAIN, Ltd.

(Dept. C.D. D.)

2 PERCY ST., LONDON, W.3

KO-TAL-KO

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an enormous demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	} per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E. 1.



The agreeable alternative to extraction in the prevention & treatment of

PYORRHOEA

THE FORMULA OF A SPECIALIST.

As a dental paste $2/3$ per tube; wholesale, **23/-** per dozen net.

As a concentrated mouthwash $2/9$ per bottle; wholesale, **28/-** per dozen net.

(Including Medicine Stamp duty)

Protected Prices.

Remittance with order, carriage paid on not less than one dozen.

Particulars of liberal progressive discount on application.

Value of goods returned refunded in full.

Of principal wholesale Houses, or direct from

ORISAL Ltd.,

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PORTMAN SQ., W. 1.



BIDWELLS

LIMITED.

Will friends kindly note that our old Silverdrawn brand of Tooth Brushes are now stamped "GLORIA" SILVERDRAWN and that this title is registered.

Head Office & Factory :
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FOR

Powder Puffs

OF EVERY KIND.

SOLPORT BROTHERS
LIMITED,

Wholesale and Export Manufacturers of
Druggists' Sundries and Toilet Accessories,

184 to 190 GOSWELL ROAD
LONDON, E.C. 1.

YOUR PRICE

4/-

PER DOZEN.

Quin Quenna

BETTER THAN A SHAMPOO

PUBLIC PRICE

6d.

EACH, P.A.T.A.



QUIN -QUENNA

ADVERTISEMENTS
PERSISTENTLY
APPEAR IN EVERY
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THE DISCRIMINA-
TING WOMAN
BUYS, USES, AND
WILL HAVE IT.

THIS CARTON

AND ADVERTIS-
ING MATERIAL
OUGHT TO BE
SHOWN BY ALL
DISCERNING
CHEMISTS. - -

BESIDES, IT NETS
WITH BONUS A
P.A.T.A.
PROFIT **43%**
OF - -

**BOXED IN HALF-GROSS CARTONS, WITH ONE DOZ. BONUS,
CARRIAGE PAID TO YOUR ADDRESS AT ONCE.**

CHRISTY'S, OLD SWAN LANE, LONDON, E.C. 4.

“LESCOL” FLORAL PERFUMES

NOTICE

ON account of shortage of spirit and raw materials, Perfumes will be very scarce this year;] but as we are holding a very fair stock at remunerative prices to our customers, we strongly advise them to send us their requirements at an early date, in order to avoid disappointment. On receipt of postcard, if possible, one of our representatives will call with samples when next in your vicinity, or we will forward you a complete price list.

We also hold good stocks of ESSENTIAL OILS at lowest market prices, & FLORAL OTTOS, FRUIT ESSENCES, CHEMICALS, &c.

LESCOL PERFUMERY CO. Lomond Grove, Camberwell Green,
LONDON, S.E.5.

Telephone: 810 HOP. (Proprietors: The London Essence Co.) Telegrams: “VANILIN, CAMBER, LONDON.”

CARMOL MANUFACTURING CO.

28 Bath Row, Birmingham. Works: 18/19 Washington St.

Have you a Nostrum ?

Let us SELL it for you.

Have you a Speciality ?

Let us PACK it for you.

Have you a Formula ?

Let us MAKE it for you.

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Let us DEVELOP it for you.

Our Organisation is at YOUR service.

Write to us—we shall be pleased to hear from you.

Toilets, Pharmaceuticals, Tablets—EVERYTHING FOR THE PHARMACY

TOOGOOD'S TOILET CREAMS



Creme Altesia

A non-greasy Face Cream. Packed in
1-oz. Screw-capped Jars, each in Carton.
7/- per doz.



Altesia Skin Food

A greasy Skin Cream. Packed in 1½-oz.
Flat Screw-capped Jars. 7/- per doz.

Manufactured only by

William Toogood, Ltd., 77 Southwark Street, London, S.E.1.



PUT THE
Ker-nak
 BOY
 IN YOUR WINDOW
 NOW!

EXPENSIVE MODEL LENT FREE.

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-**. These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

ORDER FORM.

NAME

Address

Date

To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.

Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense) to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.

Yours truly,

Signature

PRICES OF KER-NAK: 1/3 size, 12/6 doz.; 3/- size, 28/- doz. (Minimum Prices Face Value)

A still further GREAT REDUCTION in the price of
SACCHARIN TABLETS

Uncontrolled now MUCH LOWER than Controlled.

		Full Strength. $\frac{1}{2}$ gr., 330 in 1.	Special Strength. $\frac{1}{3}$ gr., 330 in 1.	Half Strength. $\frac{1}{4}$ gr., 330 in 1.
1 lb., approx.	7,000 tablets	65/-	45/-	35/- per lb.
2 lb.	14,000 "	64/-	44/-	34/- "
5 lb.	35,000 "	63/-	43/-	33/- "
10 lb.	70,000 "	62/-	42/-	32/- "
25 lb.	175,000 "	60/-	40/-	30/- "
Less than 1-lb. lots	...	9/6	6/9	5/3 per 1000.
Packed in boxes of 500	...	59/-	43/-	34/- per dozen boxes.
"	200	24/-	18/-	14/- "
"	100	12/6	9/6	7/6 "
"	50	6/9	5/3	4/3 "
" envelopes	25	3/9	3/-	2/8 " envelopes.

NOTE.—You can retail these at whatever price you desire.

As we buy the Saccharin direct from the Makers, and make and pack the Tablets on the premises, we can guarantee both the quality and the strength.

TERMS: Net Cash with Order. Post paid on £1 value upwards.

SACCHARIN POWDER. "Monsanto 550."

1 lb. 180/- ... 10 lb. 176/- ... 25 lb. 174/- ... 50 lb. 172/- per lb.
 Duty paid. Net Cash with Order. Delivered Free.

BROOK, PARKER & CO., Ltd., Manufacturing Chemists, **Ashfield, Horton Road, BRADFORD.**
 Contractors to H.M. and the U.S.A. Governments.

SACCHARIN TABLETS

FROM BRITISH-MADE
 SACCHARIN

$\frac{1}{4}$ -gr. 330 in each tablet.

5/- per 1000.

All strengths supplied in Bulk or
 S.-C. Bottles.

Customers' own labels if required.
 Prices on application.

The Cooper Laboratory
WATFORD

Saccharin Tablets.

$\frac{1}{4}$ gr., 330 in 1. Guaranteed the Genuine Article.
£3 10 per lb. Cash with Order.

Delivery per return. Reg. post paid. Special quotations for large quantities.

HENRY BOWN, Chemist, 154 Cemetery Road, SHEFFIELD.

Telegrams: 2742 Sheffield.

SACCHARIN TABLETS.

Exceptional Offer. $\frac{1}{4}$ grain 330. Cash with Order.

1 lb. (Average over 7,000)	£3 8 0
5 lb.	£3 2 0
10 lb.	£3 1 0
20 lb.	£3 0 0

MARSH, BROOKS & Co., 58 Victoria Sq., BOLTON.

SACCHARINE TABLETS

$\frac{1}{4}$ -gr., 330 in 1.

We propose to clear our stocks at a sacrifice, and will send, registered post paid, any quantity from 1 lb. upwards at

30/- per lb., or envelopes of 100 at 72/- per gross.

A. S. PRICE & CO., Ltd., Blackheath, BIRMINGHAM.

SACCHARINE 550 "Monsanto" Brand

200 lb. on spot. Offer wanted, whole or part.

SACCHARINE TABLETS

$\frac{1}{4}$ grain, 330 strength, "Monsanto."
 4/10 per thousand for quantities.

Address - - Box 21/19, Office of this Paper.

GREAT REDUCTION**Saccharin Tablets**

GUARANTEED FULL STRENGTH

 $\frac{1}{2}$ grain, 330 in 1.

10,000 at 10/- per 1,000

25,000 at 9/9 " "

50,000 at 9/6 " "

Envelopes containing 100

UNCONTROLLED

SACCHARIN TABLETS

To retail at 1/6; 12/- per doz. for 1 gross lots.

11/6 per doz. for 5 gross lots.

Post free.

AUSTIN, Wholesale Chemist,
Alum Rock Rd., BIRMINGHAM.**SACCHARIN U.S.P.**

Soluble 500 and Insoluble 550.

AVAILABLE FROM OUR STOCK.

*Write or wire us for C.I.F. Quotations.***BENZOIC ACID, U.S.P.****BENZOATE of SODA, U.S.P.****Certified FOOD COLOURS****FLAVOURING EXTRACTS****IMEX CORPORATION,**

25 Beaver St., New York City, N.Y., U.S.A.

(Cable: "Imex Corporation, Twen'y-five Beaver, New York.")

Reference:—EMPIRE TRUST COMPANY,

41 Threadneedle St., London, E.C., England.

QUALITY TELLS.

SELL

SACCHARIN TABLETS**Guaranteed by the Maker.**

(Average over 7,000 to the pound).

 $(\frac{1}{2}$ gr. = 330 in 1.)

1 lb. Lots 65/- per lb.

2 lb. " 64/- "

5 lb. " 63/- "

10,000 lots at 9/- per thousand.

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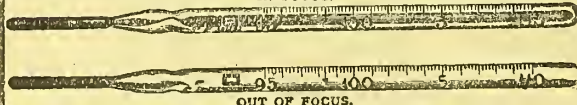


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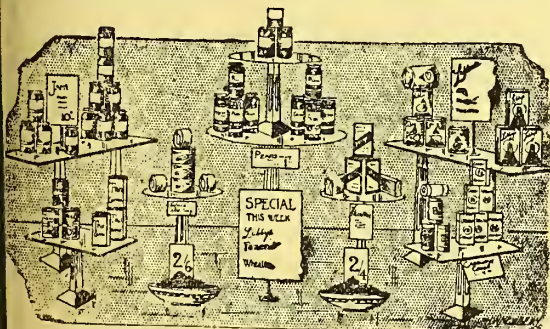
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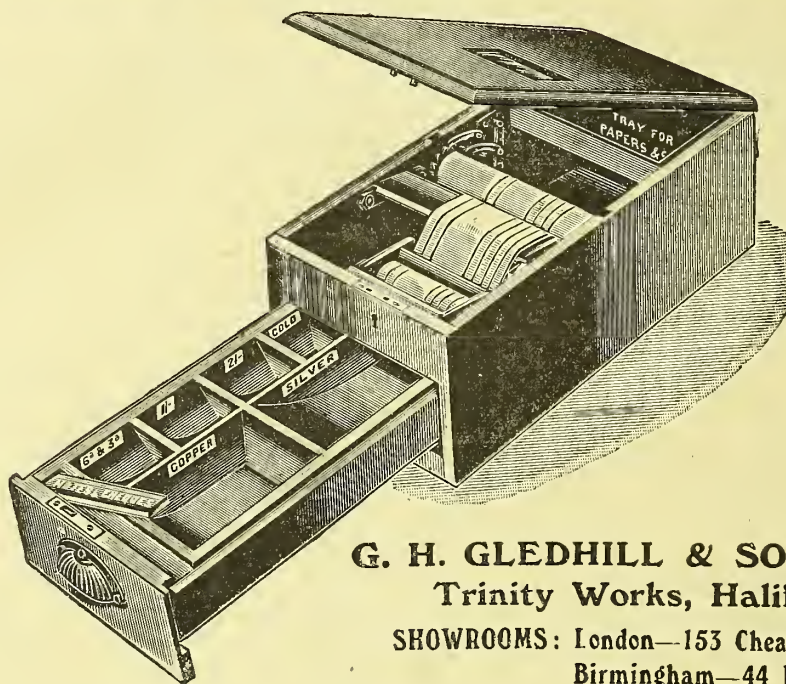


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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, February 17.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 4.30 P.M. Cantor Lecture: "The Scientific Problems of Electric Wave Telegraphy," by Dr. J. A. Fleming, F.R.S.

Wednesday, February 19.

Manchester and Salford Chemists' Assistants' Association, Metro Café, St. Peter's Square, at 8 P.M. Further discussion on "Pharmaceutical Organisation."

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. Hugo Wolf, member of the Pharmaceutical Council, on "Salesmanship."

Royal Society of Arts, John Street, Adelphi, London, W.C., at 4.30 P.M. Ordinary meeting. "The Use of Electricity in Agriculture in Germany," by John Francis Crowley, D.Sc. Sir John F. C. Snell will preside.

Thursday, February 20.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Ordinary meeting.

Essex County Pharmacists' Association, 17 Bloomsbury Square, London, W.C., at 3 P.M. Annual general meeting.

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, London, W.C., at 3 P.M. Address by Mr. F. Cherry.

amalgamated Society of Pharmacists, Drug and Chemical Workers, Cannon Street Hotel, London, E.C., at 7.30 P.M. Concert. Tickets (1s. and 2s., exclusive of tax) from Mr. Hawkins, Organising Secretary, 31-33 High Holborn, W.C.

South-East London Chemists' Association, Unitarian Hall, High Street, Lewisham, at 6.30 p.m. Whist-drive and social evening. Tickets (3s. each) from Mr. W. Charles Sayers, 63 High Street, Lewisham.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Surplus State Property.

A central authority has been established for the disposal of all surplus Government property. The organisation which has been arranged by the Minister of Munitions consists of an Advisory Council (to advise on questions of policy), a Board directly responsible to the Minister to be called the Surplus Government Property Disposal Board, and a Departmental Organisation divided into seventeen sections, to deal with the different classes of property for disposal. The Controller of the Medical Stores, Equipment and Instruments Section, is Mr. W. J. Uglov Woolcock, M.P., and of the chemicals and explosives and chemical warfare material, Mr. D. G. Duff. The other members of the Medical Stores Section are Mr. Thomas Barclay, Mr. G. F. McCleary, Mr. W. S. Glyn-Jones, Mr. A. J. Riley, and Mr. C. A. Hill. Communications should be addressed to the Secretary, Disposal Board, Armament Buildings, Whitehall Place, London, S.W. 1.

Society of Apothecaries of London.

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Crow, D.	McEvoy, M. K.	Thompson, K. F. M.
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Edwards, M. S.	Parkins, S. C.	Woodreffe, D. A. E.
Ellis, W. M.	Poole, B.	
Ellison, J.	Price, J. M.	

Birmingham.

Liquorice-juice is being retailed here at 9d. per 4 oz.

Mr. Wilfrid Hill gave an address on reconstruction problems at Birmingham University on February 8.

A correspondent of the "Birmingham Post" states that the copying-ink used by Napoleon at St. Helena was manufactured in Birmingham.

Here, as in other places, the plague of rats is exercising the wits of the authorities. It would appear that a fortune awaits the inventor of a genuine—and safe—exterminator.

Bradford.

Chemists are noting a demand by a discerning public for newly-imported foreign toilet preparations, which are not only saleable at a lower retail price than the British goods made during the war period, but contain certain ingredients—glycerine, for instance—for which the latter have only substitutes, owing to the Government demand for the article for war uses. The trade has still on hand a considerable quantity of the British article bought during the war, when importation was barred, and it is felt that time ought to be allowed to clear the stocks.

Liverpool.

Demobilisation is slowly bringing back members of the indoor and outdoor staffs of the local wholesale houses.

Mr. G. Scott, Wallasey, has retired owing to health considerations, and intends making a visit to Australia.

The severe frost has caused pharmacies to be very thronged. Further cases of influenza, with fatal pneumonia, are reported.

Mr. Prosper Marsden testified, at the recent meeting of the Liverpool Chemists' Association, to the efficient service of the wholesalers as regarded hospital supplies during the war.

"L.R.C.P." reiterates in the local Press the suggestion that pharmacists should be allowed to supply "small quantities" of alcoholic stimulant—adding, however, "when prescribed."

The name of Mr. J. Luther Hirst, who was co-opted a member of the Council of the Liverpool Chemists' Association on January 29, was unfortunately printed in our last issue (p. 51) with initials belonging to another pharmacist. We regret the *contratempus*.

It is hoped that the local Association will devote an evening this session to a series of short papers such as were introduced, with great success, last year. The increased attendance at the annual meeting indicated a healthy state of affairs. Owing to the interest aroused by the discussion, the ten o'clock rule was broken.

Major P. J. S. Overton, R.F.A. (eldest son of Mr. John Overton, managing director of R. Sumner & Co., Ltd.), has been demobilised, and has returned to business in Hanover Street. The Major, who was a Territorial officer when war broke out, joined the Colours on August 4, 1914, and in September 1915 went to France, where he remained until the armistice was declared.

Now that such notices as "Glycerin is to hand; please step inside" are to be seen in suburban windows, the public have ceased to demand glycerin with anything like the war-time urgency. Some demand has been occasioned by a quasi-official announcement that an egg-cup full added to the average "wet meter" will form "a film on the top of the water" and prevent freezing and the stoppage of the gas supply.

Manchester.

At the recent annual meeting of the Manchester and District Radium Institute a new research laboratory was formally opened. The annual report of the Institute stated that during the preceding twelve months 648 cases had been brought for treatment—an increase of sixty on the number for the previous year. The number of cases of malignant disease (other than rodent ulcer) rendered free from symptoms and signs during the year was forty-eight, and eighteen cases of rodent ulcer were apparently cured.

A report lately presented to the Watch Committee by the Chief Constable of Manchester deals with the question of methylated-spirit drinking. The view is taken that anything like sweeping restrictions on the sale were likely to have serious effects to persons using it for lawful purposes. It should be within the skill of the law-makers, the report adds, to devise some means by which the seller would be required to satisfy himself as to the purpose of the purchase, whilst it could be made a punishable offence to obtain the spirit by false representations. It had been suggested that an addition should be made to the spirit which, without spoiling it for trade purposes, would cause illness in the person drinking it before he got intoxicated. Another suggestion was that the composition of the spirit should be slightly altered so as to bring it within the category of things which have to be labelled "Poison" and sold in a special kind of bottle.

Portsmouth.

The local Association shows fresh signs of coming activity: Committees have been well attended, and there will soon be important transactions to chronicle. Mr. F. H. Ruoff has accepted the "portfolio" of the trade section, and has issued a cheery appeal for extended co-operation. Among minimum retail prices secured by agreement are: methylated spirit, 1s. 9d. per pint; glycerin, 4d. per oz. Mr. Atterbury has the War Benevolent Fund in hand, and answers inquiries with a satisfied smile.

Portsmouth has hitherto been regarded as the stronghold of the Timothy White Co., Ltd., who have fifteen pharmacies in the borough. Boots, Ltd., have, however, opened a branch recently at Kingston Cross, where they have purchased the premises of the late Mr. J. Cooper. It is now definitely learned that they have also bought the business of Mr. T. A. White, Ph.C., in Elm Grove, who has one of the finest pharmacies in the South of England. Unfortunately, Mr. White's main reason for retiring is his indifferent health; but there is another—the attraction of a country life. In its enjoyment he will have the good wishes of a large circle of pharmacists who remember him as a former member of the Pharmaceutical Council and a genial host at the Portsmouth Conference.

Sheffield.

There are several rumours floating round to the effect that a multiple-shop firm is opening several branches in the city and suburbs.

The boring for oil by the Government contractors at Brimington has been successful in securing "Farmer's oil."

Great hopes are entertained that the true mineral oil will shortly be tapped.

When the Insurance accounts for 1918 are completed the should be a substantial return, approaching half the amount which has been deducted for the Pharmaceutical Committee's expenses.

There is a real need for the local public bodies to have representative of pharmacy upon them. Neither the Ecclesiam nor the Sheffield Board of Guardians includes a chemist: the elections take place early in April. So now the time to act. More important still is it that some chemist should be found for the City Council at the November election.

Miscellaneous.

SIR THOMAS BEECHAM ESTATE, LTD.—By an Order dated January 24, Mr. J. S. Mallam, Queen Victoria Street, London, E.C., has been appointed receiver of the Sir Thomas Beecham Estate, Ltd.

CLOSING-ORDER DRAFTED.—The Chester City Council has issued a draft closing-order for chemists and druggists, the closing-hour being 7 P.M. (Wednesdays, 1 P.M.; Saturdays, 8 P.M.), with exemption for days preceding statutory holidays.

BELGIAN DOCTORS' AND PHARMACISTS' RELIEF FUND.—The fund was closed on February 10. At a meeting of the Executive Committee on January 30 arrangements were made for the disposal of the small balance on hand and the surgical instruments which have been housed at the Apothecaries' Hall.

POISONING.—At Weybridge, on February 10, an inquest was held on the body of W. W. Tilley, an air-mechanic in the Royal Air Force. Evidence showed that on reporting sick he had been given carbolic acid in mistake for cough mixture by a sergeant of the R.A.F. medical service. Tilley died within a few minutes. The sergeant stated at inquest that he had been using carbolic acid previously and had picked up the wrong bottle. An "Accidental death" verdict was returned.

WAR FUND CLOSED.—For about three years the warehouse employes of Evans Sons Lescher & Webb, Ltd., Bartholomew Close, London, E.C., have maintained "The Evans Boys at the Front Fund." With the signing of the armistice it was decided to close the fund at the end of 1918. The total amount collected was 242l. 2s. 6d., all of which was expended in supplying comforts to those members of staff who were on active service. The success of the fund was to a great extent due to the untiring efforts of Mr. George Woollard, Hon. Secretary, and Mr. H. E. Flower, Hon. Treasurer.

TRADING WITH ENEMY ALIENS.—The Executive Committee of the British Empire Union have addressed a circular letter to public authorities suggesting that, as peace is approaching, it would be beneficial if a public announcement could be issued stating that no tenders will be received from any no contracts given to any firms connected directly or indirectly with the enemy Powers, and that preference will always be given, as far as possible, to British firms employing British labour. Such an announcement, they add, would go far to ensure that taxes, which must necessarily be increased, would be expended for the benefit of British industry.

IN THE COURTS.—At Morecambe, on February 7, Mr. Roberts and Emily Hodge, both married, were committed for trial on charges of illegal operations. It was alleged that Hodge used a syringe and white vitriol, and Robert a crocheting-needle. The Bench refused bail, the police representing that there had been a big *clientèle* for Robert. At Swindon, on February 3, Arthur Henry Sharp, a discharged soldier, was bound over and ordered to pay 17s. costs on a charge of stealing goods value 1s. 9d. from a shop of Mr. Vivian Miles, drug-store proprietor, Fawcett Street.—At Trowbridge County Court, on February 7, a case was adjourned in which a Mr. E. H. Skrine was awarded 36l. damages for the loss of three pigs alleged to have been poisoned while in his custody, where they had been to stud. Mr. J. W. Gollidge, M.R.C.V.S., said he examined the pigs and found that they had died of poison, such as might be used for rats. Counsel for the plaintiff argued that poison should not have been put down in any place to which a person had access. For the defence it was stated that the poison was in a sty, the door of which was doubly fastened, and that it was the plaintiff's agent who put the pigs into it.—At Bow Street Police Court, London, on February 7, R. R. de Veulle, charged on remand with the manslaughter of "Billie Carleton," was again remanded in custody after legal argument on his application for readmission to bail.—At Liverpool Police Court, a Chinese fireman was fined 10l., with 21s. costs, for bringing a piece of opium ashore.—Five Chinamen were remanded at Newport (Mon.) on February 12 on a charge of allowing

laundry to be used for the preparation, sale, and smoking of opium. The building was raided by the police, who found tins and twenty-eight pieces of paper containing opium.

WINE-LICENCE APPLICATIONS.—At the Altrincham Licensing Sessions, Mr. Edward Newton Owen, chemist and druggist, applied for the transfer of a wine off-licence from Lymm Village to Eagle Brow, Lymm. Asked by a superintendent of police if he was willing that the licence should be restricted to medicated wines, Mr. Owen asked what the superintendent meant by "medicated wines." The Chairman of the magistrates elicited that the police feared the possible transference of the licence to someone who would open the premises as a wine-shop. Remarking that the argument could have applied to Mr. Owen's last year's licence, the Chairman granted the application.—At Faringdon, on February 4, Mr. William Henry Cook, chemist and druggist, was granted (subject to confirmation by the county authority) a licence to sell medicated wines.—At Halifax, on February 5, Mr. Baron Cuthbert Hodgson, chemist and druggist, Westbourne Crescent, Salterhebble, was granted an off-licence for the sale of medicated wines.—At the Blackburn Licensing Sessions, the application of Mr. Harold Ernest Beswick, chemist and druggist, a director of Beswick's Cash Chemists, Ltd., for a wine off-licence was refused, notwithstanding the production of a letter in support signed by seven medical men.—Mr. Sampson Charles Blore, chemist and druggist, Stratford Road, Sparkbrook, Birmingham, has given notice of application for a wine off-licence.—Vine-licences have been transferred as follows: At Ramsate, from Mr. H. J. Pavey, chemist and druggist, to Mr. H. Skitt, chemist and druggist; at Worcester, from Mr. J. W. Turner, chemist and druggist, to Mr. G. A. Turner, chemist and druggist; at Sheffield, Mr. J. T. Appleton's licence from South Road to Industry Street.

INQUESTS.—The City of London Coroner held an inquiry on February 10 concerning the death of Mr. John William Murdock (52), chemist and druggist, lately residing at 21 Richmond Road, Ealing, W., who died suddenly in the offices of E. M. de Souza & Co., wholesale chemists, 44 Holborn Viaduct, E.C. Mrs. Emma Murdock, his widow, stated that her husband was formerly for many years a partner in the firm of Messrs. de Souza, Rangoon, Burma, but retired two years ago and came to London, entering their Holborn offices as buyer. While in India her husband had very indifferent health, suffering in turn from colic, malaria, and dysentery. Two months ago he had influenza slightly, but he had not been depressed. On the morning of February 6 he was quite cheerful, although he was worried about the strike on the tubes. The same evening witness heard of his death, which was quite unexpected. He never took cocaine, morphine, or any other drugs, and was a very temperate man. Mr. Joseph Charles de Souza, a partner in the firm of E. M. de Souza & Co., told Mr. Murdock left India in August 1916, and came to London as their buyer. Constitutionally, he was not strong, and not particularly healthy. There were samples of drugs in Mr. Murdock's office, and after his death witness found an unsealed bottle of hydrocyanic acid with a sealed one; they were in a drawer. Witness had no suspicion of poisoning. Thomas Mervan Norris, clerk to Messrs. de Souza, gave evidence that at 1.40 p.m. on February 6 he heard the sound of moaning coming from Mr. Murdock's room, and he discovered that the door was locked on the inside. Witness got on a table, and on looking over the glass partition saw the deceased lying on the hearthrug in front of the fire. On the door being forced it was discovered that death had already taken place. Dr. Bernard Henry Spilsbury, who had made a post-mortem examination, stated that the lips and fingers were blue. Internally, the heart was enlarged, and there was disease of the heart muscle. In the air passages witness found Pfeiffer's influenza bacillus. There was commencing pneumonia. Witness found no poison, and he was satisfied that death was due to syncope consequent upon influenza. The jury returned a verdict of "Death from natural causes."—An inquiry into the death of Edith Elizabeth Plumb, Drummond Street, Aston Square, London, N.W., an assistant at a pharmacy in Wilton Road, S.W., was adjourned on February 11 for an analysis to be made. Dr. Spilsbury stated in evidence that he could not come to a definite conclusion, although in his post-mortem examination he had found evidence of bronchial pneumonia. A police-constable said that he found a bottle labelled "cocaine" and two labelled "chlorodyne" in Miss Plumb's room. Frederick George Burke, manager of the shop at which she was employed, stated that she had access to all the medicines and could take up a bottle for herself. Cocaine was kept in stock, it was not sold. It was only used in making up doctors' prescriptions.

Irish News.

Brevities.

The Tyrone County Council has decided to grant the analyst a bonus of 34*l.* for 1918.

French & Whelan, chemists, Patrick Street, Cork, have been granted a medicated-wine licence.

Very few assistants who joined the Colours from Cork have been demobilised, but some are expected back shortly.

There is a big demand for perfumes all over the south of Ireland; and though the supply shows some improvement there is still a shortage.

There has been a bad recrudescence of the influenza in Cork. Last Sunday was one of the busiest days on record, and chemists had a difficult time.

Notice of motion has been given to increase the salary of Mr. John Whelan, apothecary at the Galway Workhouse and Dispensary, by 30*l.* a year.

Sir Stanley Harrington, J.P., chairman of the Cork Chemical and Drug Co., presided at the recent meeting of the shareholders of the Munster and Leinster Bank, and was re-elected a director.

At Belfast Recorders' Court last week, a claim was brought by Mr. Robert Andrews, Ph.C., 75 Crumlin Road, for compensation for malicious injury to a plate-glass on his premises on December 27, 1918. Judge Craig awarded 15*l.* 12*s.*, to be levied off city rates.

Owing to the continuance of the strike in Belfast, which has deprived the city of light, it is still impossible to fix a date for the annual meeting of the North Irish Pharmacists' Association, which was to have been held on February 5. The Council meeting of the Ulster Drug Trade Association will have to be postponed for a similar reason.

At Belfast Police Court, on February 7, William O'Brien appeared on remand on a charge of window-breaking and stealing two bottles of perfume from the shop of Mr. J. A. Bingham, Donegall Place (C. & D., February 8, p. 37). The accused entered a plea of guilty, and asked for leniency. Inspector Gerity said the authorities did not look upon the breaking of windows in the city as the work of strikers but of hooligans, who took advantage of the conditions brought about by the strike. Accused was sentenced to fourteen days' imprisonment.

A meeting of the chemists' section of the Cork Employers' Federation was held on February 5 to consider the scale of salaries demanded by the local branch of the Chemists' Assistants' Association (C. & D., February 8, p. 50). There was a large attendance. While those present were of the opinion that an adjusted scale of payment should be made, it was unanimously decided that all the demands in the assistants' communication could not be agreed to. It was decided to instruct the Secretary to inform the Chemists' Assistants' Secretary of the proposals agreed to.

The question of the hours of chemists' assistants was discussed at a meeting of the Belfast Trades and Labour Council on February 7. Mr. Edward Owen, Organising Secretary of the Shop Assistants' Union, said they would also ask on behalf of the chemists' assistants for a 44-hour week, and a minimum rate of wages. The present pay of chemists' assistants is 70*l.* to 90*l.* a year, and the minimum they would now ask is 2*l.* 5*s.* a week. The Chairman assured the assistants of the sympathy of the Council. Mr. McCann, for the chemists' assistants, pointed out the difficulty they experienced while working the present hours.

MR. THOMAS HUNGERFORD FORGAN, The Croft, Thurston, Chester, managing director of Brunner, Mond & Co., Ltd., Northwich, who died on November 11, left 12,788*l.* 2*s.* 5*d.*, of which 9,055*l.* 19*s.* 2*d.* is net personality.

WOMEN PHARMACISTS' MEETING.—Women pharmacists of the Manchester and Liverpool district assembled on January 23 in the Houldsworth Hall, Manchester, Miss Wardle in the chair. There were representatives from Liverpool, Derbyshire, Warrington, Blackburn, etc. It was decided to form a local group of the National Association of Women Pharmacists; that it should be known as "The Manchester, Liverpool, and District Group," and that four meetings should be held annually—two in Manchester, one in Liverpool, and one in Warrington. Registered pharmaceutical students are to be invited to join as associates at a reduced fee. Much enthusiasm was shown, and it was decided to hold the next meeting in Manchester in April. The following officers were elected: *President* Miss Wardle (Oldham); *Secretary*, Miss Sargent (Manchester); *Treasurer*, Miss Edis (Liverpool).

Scottish News.

Brevities.

There is a strong feeling against the continuance of the compulsion to obtain a licence before opening a new business.

Dispensing and other prices are now, generally speaking, on a higher level; but there is great need for minimum prices.

Mr. William Smart, chemist and druggist, Buckhaven, has been demobilised from the R.A.M.C., and has returned to business.

The arrival of men from the Army is causing the departure of those ladies who do not intend to take up pharmacy as a permanent vocation.

A wholesale firm in England states that a consignment of goods from Liverpool to Scotland took four weeks, lately, to reach its destination.

"We hear a lot of grumbling by doctors," writes a correspondent, "against chemists for prescribing; but what are we to do with those doctors (and there are many) who order elastic hosiery, trusses, and other things for their patients—and supply the goods, too?"

The late Mrs. Purdie, widow of Professor Purdie, Professor of Chemistry at St. Andrew's University, has bequeathed the residue of her estate to the University for use in the promotion of chemical research. The value of the legacy is understood to be about 25,000*l.*

The next monthly meeting of the Glasgow and West of Scotland Chemists' Association has been postponed until February 27, when Mr. Thos. Stephenson, Ph.C., F.R.S.E., will give a lantern lecture on "The Pacific Coast in War-time," at 180 West Regent Street.

Edinburgh.

Professor Geddes is to be presented with his portrait on his return from India, where he has for two years been conducting schemes of town-planning and sanitation. He is expected to be back in Edinburgh early in April.

Business is booming—the third strenuous spell in less than a year. One hears of doctors who have not been to bed for forty-eight hours at a stretch, and chemists are just as tired. A melancholy reflection for some of the latter is that much of their labour will go to swell the excess profits.

A lively newspaper correspondence regarding a new style of handwriting in some of the schools reminds a cynical member of the drug-trade that most doctors believe that all other doctors write illegibly. It not uncommonly happens, for example, when an insured patient asks his panel doctor to copy from a hospital script, that a chemist's aid in deciphering is sought.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

COLONIAL PHARMACY BOARD OF CAPE PROVINCE.—At the election held in December the successful candidates for the three vacancies on the Colonial Pharmacy Board were Messrs. W. K. Mager (Queenstown), George R. Cleghorn (Capetown), and Mr. J. Parry (Kimberley), the figures being as follows: W. K. Mager, 76; G. R. Cleghorn, 64; J. Parry, 53; J. Sowden, 43; J. B. Preston, 27; J. A. Bowie, 22. The newly-elected members will hold office for three years from January 1, 1919, or until the coming into operation of the Medical, Dental and Pharmacy Act for the Union should that date be prior to December 31, 1921.

BUSINESS CHANGES.—The South African Toilet Requisite Co. (of Johannesburg) have purchased the business formerly carried on by the late Mr. James Moore in Adderley Street, Capetown. The branch pharmacies at Three Anchor Bay and Sea Point have been taken over by Mr. H. P. Marshall (the former manager) and Mr. G. S. Burton respectively.—Mr. H. V. Gardner has acquired the business carried on for many years in Plein Street, Capetown, by Mr. J. H. Cooper, who intends leaving shortly for Europe.—Mr. A. Wortreich has opened a new pharmacy at Kalk Bay.—The Cape Toilet Requisite Co., Adderley Street, Capetown, have opened a drug and dispensing department, under the management of Mr. Nathan Wortreich.—Mr. G. S. Burton has sold his business at Mowbray, Capetown, to Wood & Co., Ltd.

French News.

(From the "C. & D." Paris Correspondent.)

PRO PATRIA.—M. George Doillon, auxiliary Army pharmacist, son of M. Doillon, pharmacist, of Faverney (Haute-Saône), was killed while rescuing wounded men under heavy barrage. In his student days at the Paris School of Pharmacy M. Doillon won the Buignet prize and two medals. He had also been awarded the War Cross for his Army service.

THE CANCER "CURERS."—Dr. Folley, who proposed to cure cancer by means of a "filter which only allowed pure x-rays to touch the spot," was fined 2,000*fr.* and sentenced to two years' imprisonment at a Parisian police court recently. A Greek medical student who was associated with him was nominally sent to gaol for six months, but benefited by the First Offenders' Act.

SURPLUS STORES.—What to do with war stores is one of the problems of to-day. The surplus medical and pharmaceutical stores of the Army are, it is stated, claimed by the Minister of the Interior, who proposes to distribute them to various local centres to be handed over to hospitals, hospices, hygienic and disinfection services, and the like, for the benefit of the civilian population.

THE PARIS SOCIETY OF PHARMACY voted *nem. con.* that all names of enemy members should be struck off the roll. M. Patrouillard was elected Vice-President for 1919—he will succeed to the Presidential chair in 1920—and M. Bourdier annual Secretary. The 1918 gold medal for physico-chemical science was awarded to M. Cordier, and that for natural sciences to M. Mougne; while M. Bouvet was named as Vigier Prizeman.

DUE REWARDS.—Assistant-Pharmacist-Major Wallerand, twice wounded and thrice named in Army Orders for gallant conduct, belongs to Avesnes, a Northern town familiar to many of our men with "Rawlinson's Army." Second Class Pharmacist-Major Sommelet, head of the chemical service of one of the Army Laboratories, is cited as "a model officer, who has rendered signal service by researches and experiments on effects of gases, careless of the danger thereby incurred."

THE NEW CODEX COMMITTEE.—The decree of April 16, 1910, nominating members of the Permanent Codex Committee, has been rescinded, and a recent decree revises the membership of the Committee as follows: President, M. Colville (Director of Higher Education); Vice-Presidents, Professor Guignard (of the Paris School of Pharmacy) and M. Roger (Dean of the Paris Faculty of Medicine); Secretary, M. Baud (of the Higher Education Department). The members include Professors Bourquelot, Gautier, Grimbert, Perrot, and Lebeau, of the Paris School of Pharmacy; M. Bréteau, principal pharmacist of the Army; M. Ch. Buchet, Director of the Pharmacie Centrale de France; M. Léger, head pharmacist of Parisian hospitals; Professors Carnot and Desgrez, of the Paris Faculty of Medicine; MM. Lafay, Loiseau, and Michel, Paris pharmacists; M. Moureu, professor at the College of France (formerly Professor of the Paris School of Pharmacy); Professor Nicolas, of the Alfort Veterinary School; M. Emile Roux, Director of the Pasteur Institute; M. Eugène Roux, Director of the Anti-Adulteration Services at the Ministry of Agriculture; and the President and Secretary of the General Association of French Pharmacists.

THE REORGANISATION OF ALSACE LORRAINE is being steadily pursued, and the parcels post (for packets up to 20 lb.) was started on January 5. The reconstitution of the University of Strasbourg has been studied by a Committee headed by M. Appell, Dean of the Faculty of Sciences, and including M. Gautier, Director of the Paris School of Pharmacy. These gentlemen spent ten days or so in Alsace, and are now back in Paris. They report that the libraries, laboratories, etc., are in satisfactory condition. Strasbourg boasts Institutes of Physical Science, Chemistry, Botany and Zoology, Geology, Pharmacology, Chemical Physiology, and of Hygiene and Bacteriology. The last-named is entirely new, and it is suggested might be utilised for training French health inspectors. Hopes are expressed that the University will be opened on French lines shortly. Before the war the School of Pharmacy, now at Nancy, was located at Strasbourg, and the claims of the two cities will need tactful adjustment. The idea has been mooted to make Strasbourg the scientific and Nancy the technical centre. It is hoped that the former will replace Vienna as a centre for American students in Europe. The Custom House question is equally delicate. Alsace and Lorraine are naturally full of German goods; and pharmacists here have already been offered glassware of unmistakably German origin by an enterprising agent.

Legal Reports.

Liquid-air Containers.—An application was heard by the Comptroller (Mr. W. Temple Franks) at the Patent Office, on February 8, for a licence to use Heylandt's patent for an improved metallic vessel for storing liquefied gases. The applicants, the Liquid Air and Rescue Syndicate, Park Royal, Willesden, said they had been selling the bottle under agreements with the patent owners, but have now erected plant for putting together these bottles for the sale of liquid air, and they submitted that they were entitled to an exclusive licence. The Comptroller said he thought a case had been made out for licence. He would communicate the view of the authorities whether it should be exclusive in due course.

Contracts with Enemies.—In the High Court, on February 10, before Mr. Justice Roche, Borax Consolidated, Ltd., dealers in borax and boracic acid, applied for a declaration by the Court that a contract of July 2, 1912, made with the Chemische Fabrik auf Actien vormals E. Schering, the Chemische Fabrik Grunau Landshoff, and others, should be declared dissolved and of no force and effect, and that plaintiff should be released from all obligations under the contract, as they involved relations with alien enemies. The agreement was to have continued in force until the end of 1922, or longer if the parties so desired and agreed. His Lordship, in giving judgment, said the case was fully covered by authority, and he must decide in favour of the plaintiffs, and grant the declaration they sought. Another case involving a contract with the Eisen-Hutte Silesia aktien Gesellschaft and others was also decided in favour of Borax Consolidated, Ltd.

Loss of Oil in Transit.—In the City of London Court, on February 7, before his Honour Judge Rentoul, K.C., a case of great importance to traders was heard, in which Thomas S. Harris & Co., Ltd., oil merchants, 4 Lloyds Avenue, London, E.C., claimed from the Great Northern Railway Co. five guineas damages for breach of contract or duty in and about the carriage of one barrel of best double boiled oil. The oil sent was 4 cwt. 0 qr. 21 lb., while the weight delivered was 2 cwt. 1 qr., being a difference of 1 cwt. 3 qr. 21 lb. Defendants counter-claimed for 6l. 12s. 8d. damages for breach of an implied warranty that the oil was handed to them by the plaintiffs for conveyance from Poplar Dock dépôt to West Hartlepool in a fit condition to travel, whereas owing to the defective condition of the barrel it was unfit to travel. The oil leaked from the barrel and damaged other goods entrusted to the defendants for carriage. Alternatively, defendants claimed the same sum as damages for negligence for handing the oil to the defendants for carriage. The Judge found for the plaintiffs on claim and counter-claim, with costs, and gave defendants leave to appeal.

Business Changes.

BUTLERS (LONDON), LTD., 124-127 Minories, London, E. 1, have taken over the buying agency of A. A. Bones & Co., Ltd., Pretoria.

HYWADE & Co. are opening premises as manufacturing chemists and surgical-appliance manufacturers in Railway Road, Blackburn.

MR. FRANK E. BANNISTER, chemist and druggist, has taken over as from January 31 the business of R. T. Dun (Mr. C. Paterson), manufacturing chemist, 5 Oswald Street, Glasgow. The manager of the business is Ernest J. George.

MR. M. C. COCKCROFT, chemist and druggist, Brighouse, has purchased the business of A. Sharp & Co., with whom he has been during the past five years. He is carrying on the business under the style of A. Sharp & Co., chemists and botanists.

CINCHONA EXPERIMENTS IN THE PHILIPPINES.—The introduction of cinchona plants into the Philippine Islands from India is being attempted by the Igorot Exchange, a missionary institution at Sagada, Island of Luzon. Cinchona, the source of quinine, has not been cultivated in the Philippine Islands before, it is said. The experiment is made possible by the courtesy of the Deputy-Director of Agriculture at Ootacamund, Madras Presidency, who, in response to a request made through the Madras Consulate, furnished about 10 oz. of *Cinchona ledgeriana* seed for forwarding to the institution at Sagada.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

INVENTIONS AND RESEARCH, LTD. (P.C.).—Capital 20,000l. Objects: To carry on business as owners of patents, schools, laboratories, and workshops for experimental and research work, etc. R.O., 4-6 Milner Street, Cadogan Square, London, W.

SPINNINGFIELD CHEMICAL CO., LTD. (P.C.).—Capital 1,500l. Objects: To take over the business of chemical manufacturers, manufacturers of sanitary compounds, etc., carried on by the North British Chemical Co. (England), Ltd., at 43-49 Wood Street, Deansgate, Manchester.

D. RUNCIMAN & Co. (CHEMISTS), LTD. (P.C.).—Capital 500l. Objects: To carry on business as cash chemists and druggists, etc. The subscribers (each with one share) are: D. T. Runciman, 642 Dalmarock Road, Glasgow, chemist, and J. Hope, 173 St. Vincent Street, Glasgow, solicitor. R.O., 642 Dalmarock Road, Glasgow.

SEAGERS' SHIPPING SUPPLIES, LTD. (P.C.).—Capital 50,000l. Objects: To take over the ship-store business of W. H. Seager & Co., Ltd., of 109 Bute Street, Cardiff, and to carry on the business of ship furnishers, grocers, oil and paint merchants, chemists, druggists, drysalers, etc. R.O., Seager's Buildings, Bute Docks, Cardiff.

CARDINAL SPRINGS PROPRIETARY, LTD. (P.C.).—Capital 30,000l. Objects: To carry on business as proprietors of land and water springs, hydro proprietors, etc. Permanent directors: T. A. Hwfa Williams (chairman Sandown Park, Ltd., and director of Claridge's, Berkeley, and Savoy Hotels) and F. C. Auld. R.O., 9 George Street, Hanover Square, London, W.

E. T. PEARSON & Co. (MITCHAM), LTD. (P.C.).—Capital 31,500l. Objects: To enter into an agreement with E. T. Pearson & Co., Ltd., and to carry on the business of chemists, manufacturers of chemical and industrial preparations, vendors or agents for the sale of patents and manufacturing processes, etc. The first directors are E. T. Pearson, D. E. Miller, and T. H. Wilkins (all permanent).

VICTORY OIL AND CAKE MILLS, LTD.—Capital 100,000l. Objects: To acquire the oilseed crushing mills of the Midland Produce, Ltd., at Glengall Road, Millwall, London, E., and to carry on the business of crushers, treaters, refiners, and workers of and dealers in cocoanuts, fruit, vegetable and other oils, soya-beans and other oil-producing seeds, beans and nuts, materials for the production of oil cake, margarine and other fats, copra, palm-kernels, etc.

PRICE'S PATENT CANDLE CO., LTD.—The directors announce that the accounts enable them to recommend a dividend for the half-year ended December 31 last of 1l. 5s. per share and a bonus of 12s. 6d. per share, less income-tax.

THE COLOMBO PHARMACY CO., LTD., Colombo, report a balance of Rs.14,191-82 for the year ended September 30, 1918. A sum of Rs.672-71 is written off for depreciation of fittings, and Rs.1,000 is reserved for bad and doubtful debts, Rs.22,500 being transferred to general reserve. A dividend of 12 per cent. and a bonus of 3 per cent. are declared; these will absorb Rs.11,250, leaving a balance of Rs.2,941-82 to be carried forward.

JOHN KNIGHT, LTD.—The report for the year ended November 30 last states that, after providing for excess profits duty, the balance at credit of profit and loss is 80,176l.; 41,400l. was brought forward (after deducting excess profits duty), making 121,576l. The directors recommend a dividend on the ordinary shares, making 9½ per cent. for the year, and a dividend on the deferred shares (17,500l.), to set aside for employees' profit-sharing fund, estimated, 8,500l., and to carry forward 48,076l.

CANWAL, LTD.—The annual general meeting was held on February 6 at the Midland Grand Hotel, the attendance being small owing to the railway and tube strike. Mr. H. M. Davenport, the chairman, and two of the directors for this reason were unable to attend, and in their absence the shareholders elected Mr. F. G. Pirie to take the chair. The report and the balance-sheet as submitted (*C. & D.*, February 1, p. 48) were adopted, and a dividend of 10 per cent. on the cumulative preference shares was declared. Messrs. Horace Davenport and H. Kemp were re-elected to the board, and the election of Mr. H. T. Butler as a director on his approaching retirement from the Secretaryship was confirmed. In the course of his remarks Mr. Pirie referred to the great difficulties in getting raw materials and the very strenuous time that the staff had experienced, but the board looked forward with confidence to the future.

Pharmaceutical Society of Great Britain.

By-laws Confirmed.

At the Council Chamber, Whitehall, the 23rd day of January, 1919.

By the Lords of His Majesty's Most Honourable Privy Council.

PRESENT.

Lord President, Lord Carnock, Dr. Addison.

WHEREAS the Council of the Pharmaceutical Society of Great Britain have, in exercise of the powers conferred upon them by the Pharmacy Act, 1852, and the Poisons and Pharmacy Act, 1908, altered and amended certain of the By-laws contained in Section 7 of the existing By-laws of the Society, and have made certain additions thereto:

And whereas the said alterations and additions were confirmed and approved by a Special General Meeting of the Members of the said Society held on the 8th day of January, 1919, and have been submitted for the approval of the Privy Council:

Now, therefore, their Lordships, having taken the said Section 7 of the By-laws (a copy whereof as altered and added to is hereunto annexed) into consideration, are pleased to confirm and approve the alterations and additions therein contained, and to order that the same shall come into operation on the 1st day of August, 1919.

Almeric FitzRoy.

Council-meeting.

ALTHOUGH our report of the meeting of Council on February 5 finished up with the remark, "This concluded the business," we find that more "public" business took place after the reporters had left. The following are accounts of the proceedings which we have since received:

Official Report.

ORGANISATION COMMITTEE REPORT.

The President moved that the following report of the Organisation Committee be received and adopted:

The Committee have considered the replies received from the Local Associations and the North British Branch in reply to the letter of the council dated 10th July, 1918, giving their observations upon the Report of this Committee presented to the council in July 1918.

(a) The Committee pointed out in that report that there was a demand for representation on a territorial basis, which demand should be met.

(b) That the council of the Society should be elected on that principle.

(c) That it would be possible to devise, by means of a scheme for nomination, that the principle of territorial representation of the council could be achieved without legislation or alteration of the Statutory by-laws.

As to (c) the effect of the scheme submitted would have been to permit the actual procedure of voting to be carried out as laid down in the Charter, Acts, and by-laws. The Committee admit that the end would be achieved, in a more cumbersome way than would be the case if the present system could be changed, whereby each member is entitled to vote for seven candidates, but they are satisfied that without fresh legislation the present right (if a member chooses to exercise it) of voting for seven candidates cannot be taken away.

The Committee are of opinion that if the members of the Society are really desirous that the members of the council shall be selected because they represent territories, they need not wait for fresh legislation, but in that case they must in the meantime be under the disadvantage of adopting some such scheme as was indicated in the report, which inevitably has disadvantages not pertaining to a scheme which a new Act of Parliament would enable the Society to adopt.

The questions, therefore, for the Conference to decide are:—

(1) If it is advisable to ask for legislation for altering the basis of representation for the council.

(2) If it is desirable, in the meantime, to adopt an admittedly imperfect means of securing territorial representation for the council.

If the Conference decides (in so far as the election of the council is concerned) to wait for legislation, we recommend the adoption for the re-election of the L.A.E. of a scheme for territorial representation. In view of the fact that the Conference may so decide, the Committee have carefully considered various schemes for dividing the country into suitable areas. They are satisfied that no division can be arrived at which is not open to objection from one point of view or another. The following sug-

gested division seems to be the best after balancing all the various considerations involved:—

		Approx. Number of Persons or Firms of the Panel
1. Metropolitan ...	Croydon, London, Middlesex, Surrey and West Ham ...	1,325
2. West ...	Wales, Herefordshire, Shropshire, Staffordshire, Warwickshire and Worcesterhire ...	1,370
3. South ...	Berkshire, Cornwall, Devon, Dorset, Gloucestershire, Hants, Kent, Somerset, Sussex and Wiltshire ...	1,290
4. North-East ...	Durham, Northumberland and Yorkshire ...	1,213
5. North-West ...	Cheshire, Cumberland, Lancashire and Westmorland ...	1,230
6. Central ...	Bedfordshire, Buckinghamshire, Cambridgeshire, Essex, Hertfordshire, Huntingdonshire, Leicestershire, Lincs, Norfolk, Northamptonshire, Nottinghamshire, Oxfordshire, Rutland, Suffolk and Derbyshire ...	1,337
		7,775

The Committee suggest that the L.A.E. should consist of twenty-one members—eighteen to be elected, two representing firms and corporate bodies on the panel to be co-opted, and one, the President of the Society, to be an ex officio member.

For the purpose of electing the eighteen members of the L.A.E., the country having been divided into six areas as suggested, each of the six areas should elect three representatives.

Regarding the three representatives to be appointed for each district, two should be elected by the members of the local associations, and one by the panel chemists.

The Committee recommend that the local or district associations in the area should nominate representatives for their district. Two of such nominees to be elected by ballot by the individual members of the associations in the area, subject to one of the elected persons being a member of council.

The Pharmaceutical Committees in the area should also nominate representatives, one of whom to be elected by ballot, by the persons on the panel in the area.

In the opinion of the Committee, the above or any other scheme for electing the council or the L.A.E. should be regarded as a forerunner of a more complete change in the organisation of the Society and of local associations, and they recommend that the Conference should refer to the L.A.E. for consideration and report to a subsequent Conference, the question of the desirability and feasibility of making every member of the Society a member of the local association, and of confining membership of a local association to members of the Society, with a view to establishing the local associations, which include Pharmaceutical Committees, as branches of the Society, grouped into suitable district federations, with officers of the Society for each district. This would involve the reconsideration of the areas covered by local associations.

With this foundation, machinery could be established (for which statutory sanction should be obtained) whereby nominees of these districts could constitute the council.

The Committee realise that since their last report other pharmaceutical matters arising out of reconstruction may require legislation, and they are of the opinion that the prospects of obtaining special legislation are, in consequence of the developments of the past few months, brighter than they were at the date when their report was submitted.

The Committee, in view of the advisability of submitting a report to the local associations in time for due consideration before the Conference, have asked the President if he would be pleased to refer this report to the next meeting of the L.A.E., in order that the council may have the benefit simultaneously of their observations upon it, and may be in a position to know whether the L.A.E. would be prepared to embody this scheme in their report to the conference.

Separate machinery exists in Scotland for dealing with association and insurance matters, and this scheme has, therefore, been confined to England and Wales.

On the motion of Mr. WOLFF, seconded by Mr. SKINNER, it was resolved *nem con.* to take the discussion in public.

Mr. HINES moved that the consideration of the report be adjourned on the ground that, though the draft report was circulated with the other Committee reports, it was not mentioned on the agenda, and he was not prepared for its adequate discussion.

Mr. ROWSELL moved, as an amendment, that the council reassemble after lunch in order that it should be discussed so that it might be circulated to the Local Associations in ample time for them to consider it before the Conference.

On reassembling after lunch, Mr. Skinner moved, and Mr. Hines seconded, "that no reorganisation of the Society's present scheme of organisation will be satisfactory without the co-operation of Scotland." The President ruled the amendment out of order.

Mr. WOLFF moved, and Mr. HINES seconded, that the report be considered paragraph by paragraph, and this was carried by eight votes to four. It was decided to put as the first question the adoption of the report to the end of paragraph 2, terminating with the words "cannot be taken away."

Mr. Hines moved, and Mr. Skinner seconded, the deletion of the last paragraph of this part of the report, and the substitution of the following words, "that the Council are of opinion that fresh legislation should be sought to secure the scheme of territorial representation for the council." This was lost.

Mr. SARGEANT moved that the question be now put. This was carried, and the question that the report so far be adopted was agreed to by ten to three.

The Committee then considered the following portion of the report down to the words "considerations involved."

Mr. HINES moved the deletion of the words "if it is desirable in the meantime to adopt an admittedly imperfect means of securing territorial representation for the Council." This was not seconded.

The report down to the word "involved" at the bottom of page 1 was then adopted.

The subsequent paragraph setting out the division of the country into six areas was agreed to *nem. con.*

Mr. SARGEANT moved the adoption of the remainder of the report, including the suggested amendments of the Local Associations Executive. This was seconded and agreed.

Unofficial Reports.

I. Mr. HERBERT SKINNER in "The Script" (advance copy):—

The PRESIDENT: That is all the public business.

(The Press leave and the Council goes into committee. Half-an-hour elapses, and the next item is "Any other business." Councillors look anxiously at the clock, as it is 1.30.)

The SECRETARY: There is the Organisation Report.

The PRESIDENT: Oh, yes. Is it your wish, gentlemen, that this should go out with the Local Associations report?

Several voices: Agreed. (Open mutterings of dissent.)

Mr. WOLFF: We have not discussed it.

The PRESIDENT: It's been circulated.

Mr. HINES: I protest; it is not on the agenda.

The SECRETARY and several voices: Neither was the Benevolent Fund report.

The PRESIDENT: But the report's been circulated. I don't know what there is to discuss. The Organisation Committee has discussed it.

Mr. ROWSELL: Surely we can trust our Committees.

The PRESIDENT: You've all read it. (Murmurs of dissent.) Well, then, discuss it.

Mr. ROWSELL (from behind the President): Let us take it in open Council.

Mr. SKINNER: Is Mr. Rowsell in order?

(Mr. Rowsell objects.)

Mr. WOLFF: I move to take it in open Council.

Mr. SARGEANT: I second.

(The Press do not appear.) It is decided to go to lunch and come back at 2.30. On resuming—

The PRESIDENT: Now, gentlemen, we'll take the report.

Mr. SKINNER: I move that no change in the organisation will be satisfactory which does not seek the co-operation of Scotland.

Mr. HINES: I second the motion.

Mr. SARGEANT: This report has nothing to do with Scotland; it concerns the L.A.E.

The PRESIDENT: Quite!

Mr. SKINNER: Quite. I understand that, but I want the co-operation of Scotland even in the L.A.E.

(A voice: Absurd!)

The PRESIDENT: I rule the amendment out of order.

Mr. SKINNER: But I—

(Many voices: Chair.)

Mr. WOLFF: Does this report supersede the former one?

Mr. SARGEANT: Certainly!

Mr. WOLFF: We are waiting for the report from the Associations on what they think.

The PRESIDENT: They are here (holding up a bundle of papers).

Mr. WOLFF: We have not seen them. We know nothing about them.

The PRESIDENT: You can inspect them.

Mr. WOLFF: How many Associations replied, and what was the nature of the replies?

(No answer was given.)

Mr. WOLFF: I move we discuss the report paragraph by paragraph.

Mr. SKINNER: I second.

Mr. KEALL: It is the correct way.

(More informal talk and the motion is carried 8 to 4.)

Mr. WOLFF: Can the President tell me how far this first paragraph affects the Council?

The PRESIDENT: No more than what it says here.

Mr. WOLFF: That is not an answer to my question.

The PRESIDENT: You can read it as well as I.

Mr. HINES: I move the deletion of the last paragraph and insert the desire for legislation to secure territorial representation.

Mr. SKINNER: I second. (Some interruption.)

Mr. DEAKIN: May I call attention to the standing orders, Mr. President?

Mr. SARGEANT: I move the question be now put.

The PRESIDENT: Mr. Sargeant moves the question be now put.

Mr. WOLFF: Does that mean we cannot discuss the paragraph?

The PRESIDENT: Yes, if it is agreed.

Mr. WOLFF: I protest.

Mr. PARRY: It has not yet been seconded.

(A voice: I second.) . . .

Mr. WOLFF: With your permission, Mr. President, I will retire.

The PRESIDENT: My permission is not necessary.

(Mr. Wolff retires and the paragraph is carried with two dissentients.)

Mr. HINES: I move to delete from paragraph 2 "If it is desirable in the meantime to adopt an imperfect means of securing territorial representation." (There was no seconder, and the paragraph was carried without division.)

Mr. SKINNER: Does the plan of division of the country provide for better representation for London at the Conference?

Mr. SARGEANT: The Conference will decide.

Mr. SKINNER: Will the platform give a lead?

Mr. SARGEANT: The Conference will be quite free.

Mr. SKINNER: The answer is unsatisfactory.

(Paragraph 3 is carried without division.)

Mr. SARGEANT: I move the rest of the report be taken together.

Mr. SKINNER: I protest; we have already agreed to take the report paragraph by paragraph.

(Many voices: Agreed! agreed!)

Mr. SKINNER: If you take it together I beg leave to retire.

Mr. HINES: So do I.

(Many voices: We do agree.)

Messrs. Skinner and Hines retire, and before they reach the door the curtain falls, and the comedy on Organisation is over.

II. Mr. HUGO WOLFF's account from "Square Topics" (advance copy):

ATTEMPT TO GAG MEMBERS OF COUNCIL.—At the close of the business, when the reporters had gone, a report from the Organisation Committee was presented, and, although this important matter was not on the agenda, an attempt was made to rush it through without any discussion. I moved that the matter be referred back, but Mr. Rowsell suggested that the Council reassemble after lunch in order that the report might be discussed and circulated prior to the Conference which is to be held next April. This suggestion was acted upon, but after lunch it was obvious that the "Old Gang" had no intention of having the report considered properly.

My questions were met in the main with scant courtesy, but members of the Society will look in vain in the official Journal for a report of this part of the proceedings at a public meeting of the Council. I informed the President that I had a number of questions to ask regarding this scheme, but Mr. Sargeant rose and moved "That the question be now put." Before I was elected upon the Council I was warned that this method of burking discussion would be resorted to if ever I attempted to probe into any matter before the Council. On this occasion I rose immediately and asked the President if this taking of a vote in the middle of a discussion was in order, because such procedure appeared to be entirely contrary to the standing orders! The President . . . ruled that the vote could be taken. At a later stage I asked the President if he would be good enough to explain to me two paragraphs in the suggested scheme. His reply was, "I am not here to elucidate these matters; you have it before you, make the best of it." As a protest against such treatment I promptly withdrew from the discussion.

Mr. Wolff offers three possible explanations of such extraordinary treatment of a duly elected member of the Council, and then adds: My readers can take it from me, however, that I am not a little bit dismayed because of the scurvy treatment I have received. In fact, I am at the present moment busily engaged in ferreting out what promises to be the most glaring example of negligence and mismanagement, to say nothing of extravagance, that has ever been disclosed during the existence of the Pharmaceutical Society.

Relaxation of Export and Import Prohibitions.

The following alterations in the existing prohibitions of export have been made by the Board of Trade since our last published list (*C. & D.*, February 8; p. 39).

Headings Transferred from One List to Another.

From "A" to "C" lists: Aërated and mineral waters; cream of tartar; phosgene (carbonyl chloride); tin, oxide of. From "B" to "C": Iridium and its alloys and manufactures containing iridium; tin, compounds of, except chlorides and oxides of tin.

Headings Altered.

Delete.

- (A) Barley, barley meal, and pearly and pot barley.
(A) Spirits, potable, of a strength less than 43 deg. above proof.
(A) Tea, including tea waste, sweepings, dust and fluff, whether denatured or not.

Substitute.

- (A) Barley and barley meal. Pearly and pot barley.
(A) Spirits, potable, of a strength less than 43 deg. above proof, except gin.
(C) Gin.
(A) Tea other than green tea, including tea waste, sweepings, dust and fluff, whether denatured or not.
(C) Tea, green.

Open General Licences.

The Director of the War Trade Department announces that an open general licence has been issued permitting the exportation of the undermentioned goods to all destinations, except European or Asiatic Russia and other foreign destinations in Europe or on the Mediterranean Sea (other than France and French possessions, or Italy and Italian possessions, Belgium, Portugal, Spain, Greece, Morocco, Palestine and Syria, as far north as a line from Alexandria to Aleppo inclusive, and as far east as the Hejaz railway inclusive): Bird seed, blanchmange powder; brown-ing; custard powder; pudding powders; chillies; ginger-beer powders; health salt; lemonade powder; vanilla custard; egg substitute. Applications to the War Trade Department will in future not be required in respect of any of these goods when it is desired to export them to destinations other than those specified.

Exports to Norway, Sweden, Denmark, and Holland.

Increased Rations.

The Director of the War Trade Department announces that the quantities of the goods hereinafter specified which may be imported by Norway, Sweden, Denmark, and Holland under the agreements with the Allied Governments have been largely increased.

Norway.

	Previous Ration. M. Tons	New Ration. M. Tons
Borax and boric acid	80	140
Starches	1,000	2,000 (to include potato flour)
Mineral oils	76,500	90,000

Sweden.

Borax and boric acid	400	650
Camphor	10	20
Citric acid and tartaric acid	100	150
Edible oils and fats	7,000	10,000
Gums	250	500
Paraffin wax	2,000	3,000
Other waxes	40	100
Pepper and pimento	800	1,400
Other spices	800	1,750
Rosin	4,000	5,000
Soap	250	1,000
Soda ash and carbonate	10,000	Unrationed
Spirits	1,500	No limit
Starches and sago	250	500
Sulphur	10,000	30,000
Varnishes	80	100
	360	400

Denmark.

Calcined soda, soda ash, &c.	12,500	Unrationed
Citric acid	20	30
Graphite	100	400
Nitrates and other fertilisers	33,000	40,000
Soaps and powders	400	1,300
Sulphur	270	300

Holland.

Annatto seed	25	No limit
Benzine and petrol	9,000	14,000
Borax and boracic acid	600	1,200
Chilean nitrates	70,000	150,000
Graphite, plumbago and crucibles	100	175
Honey	200	1,000
Paraffin wax and other waxes	2,000	2,500
Petroleum	100,000	140,000
Rosin	1,750	5,000
Sulphate of copper	250	1,000
Turpentine	1,500	3,500
Varnishes and lacquers	150	300

Whenever the stocks of these goods in the United Kingdom are more than sufficient to meet home requirements, licences for export from the United Kingdom to approved consignees in the neutral countries will be freely granted until such time as the quantity which may be imported by those countries has been reached.

Pharmacy Schools Filling-up.

THE note under this heading in the *C. & D.*, February 8, p. 48, has brought us letters from students who desire to hear of vacancies—present and prospective—in the Schools of Pharmacy. For convenience we print here in alphabetical order the results of our inquiries:

ABERDEEN.—ROBERT GORDON'S TECHNICAL COLLEGE.—"At present our pharmacy department is full up. We expect, however, a slackening at the end of March, and possibly an arrangement would be made sooner whereby we could take in a greater number of men than we have at present."
—Charles Stewart.

BATH AND WEST OF ENGLAND COLLEGE OF CHEMISTRY AND PHARMACY, Cleveland Place, Bath.—"We have recently made certain extensions in our laboratory accommodation, and shall have vacancies for a number of students during the first week in April. At present time we have only accommodation for one more Minor student."
—David J. Williams, Ph.C.

BIRMINGHAM AND MIDLAND COLLEGE OF CHEMISTRY, PHARMACY, AND BOTANY, 45 Newhall Street, Birmingham.—"I have not at present room to take in any more students."
—G. L. Scott, Ph.C.

CHESTER AND NORTH WALES COLLEGE OF PHARMACY, Hoole, Chester.—"There are still vacancies in the classes for both the April and September terms . . . but early application is advisable, as there is quite a rush of pharmaceutical students at present."
—Harry Berry, Ph.C.

GLASGOW SCHOOL OF PHARMACY, 26 India Street.—"We have ample room for more students in our new laboratories at above address."
—Malcolm M. Irvine, Ph.C.

LEEDS COLLEGE OF PHARMACY, Clarendon Road.—"This school is now full, but there are a few vacancies yet for the course commencing April 3."
—F. Pilkington Sargeant.

LIVERPOOL SCHOOL OF PHARMACY, 18 Colquitt Street.—"The school is not quite full at present, but a big number will be coming so soon as they are demobilised. It may be several months before some of these students can come so that I can take a certain number in the near future."
—H. Humphreys Jones, Ph.C.

LONDON COLLEGE OF CHEMISTRY, PHARMACY, AND BOTANY, 361 Clapham Road, London, S.W. 9.—"We have still some vacancies for students of pharmacy for the term to begin April 9."
—Henry Wootton, B.Sc.

MANCHESTER COLLEGE OF PHARMACY, 292 Oxford Street.—"To cope with the large number of demobilised students who have booked benches we have increased the teaching staff of the College, with the result that we can now accommodate nearly double the normal number of students. In spite of this we are rapidly filling up for the April term. There are still a few vacancies in the full-time elementary class, which commences a new term for the Minor on March 31."
—Harry Brindle, Ph.C.

ROYAL DISPENSARY AND SCHOOL OF PHARMACY OF EDINBURGH, 21 West Richmond Street.—"We are full up, and will be for some time."
—William Duncan, Ph.C.

SOUTH OF ENGLAND COLLEGE OF PHARMACY, 186 Clapham Road, London, S.W. 9.—"I have still vacancies for immediate filling. The next full course commences on April 2, and I have a few vacancies, but the school is rapidly filling up."
—H. Lucas, Ph.C.

WESTMINSTER COLLEGE OF CHEMISTRY, PHARMACY, AND BOTANY, 190 Clapham Road, London, S.W. 9.—"We still have vacancies for about a dozen students for the term commencing on April 2. Applications are coming in almost daily, and we anticipate that all benches will be taken before the opening day."
—Wills & Woodnoth.

Marriage.

VANDYK-BERTON.—At the Savoy Hotel, London, W.C., on February 4, by the Rev. F. Levene, Lieutenant Arthur Vandyk, R.A.F., youngest son of Mr. C. Vandyk, 81 Bickenhall Mansions, W., to Constance, only daughter of Mr. Arthur Berton (governing director of Arthur Berton, Ltd.), 77 Highbury New Park, N.

Deaths.

CARR.—On February 3, Mr. James Bonwell Carr, chemist and druggist (Carr & Co., chemists, Ingatstone). Mr. Carr, who qualified in 1869, had been in business at Ingatstone for several years. He was a member of the local Bowling Club and of the Working Men's Club.

FOSTER.—At Ladywalk, Rickmansworth, on February 9, Professor George Carey Foster, D.Sc., F.R.S., aged eighty-three. Professor Foster, who was a native of Sabden, Lancs., graduated at the University of London in 1855. Ten years later he became Professor of Physics at University College, W.C., where he had studied, and from 1900 to 1904 was Principal of the institution. Among other posts occupied by him were the Presidency of the Physical Society of London and the general treasurership of the British Association. His wife died in 1917.

GADDIS.—At 74 Clive Road, Middlesbrough, on February 8, Elizabeth, the beloved wife of Mr. Andrew C. Gaddis, pharmacist, aged thirty-one.

LENG.—At Buckhurst Hill, on February 9, Alice, widow of the late Mr. Robert Leng (formerly of S. Maw, Son & Sons), aged sixty-one.

MURDOCK.—At 44 Holborn Viaduct, London, E.C.1, on February 6, suddenly, Mr. John William Murdock, chemist and druggist, aged fifty-two. (See p. 43.)

PLEWS.—In London, on February 6, Mr. Harry William Plews, chemist and druggist, 14 Basinghall Street, E.C.2. Mr. Plews served his apprenticeship at Northallerton, and after qualifying in 1887 gained further experience with Dinneford & Co., New Bond Street, W. He then established himself in the City of London, purchasing a business at 14 Basinghall Street and another at 41 Moorgate Street; the latter was closed during the war. The funeral took place at Chingford Mount Cemetery on February 12.

TETLOW.—At "Lucerne Farm," Norristown, Pennsylvania, U.S.A., on January 6, after a lingering illness, Mr. Henry Tetlow, founder of the business bearing his name. Mr. Tetlow was of British origin, having been born at Ancoats, Manchester, his family connection with which is perpetuated by a thoroughfare known as Tetlow Lane. He removed to the United States in early life, and established his business in Philadelphia in 1849. The increase in the sales of his perfumery and toilet specialties was so marked that agencies were established all over the world, and to-day his well-known toilet-powder is almost the only article of its class that can be purchased in every civilised country. Nearly forty years ago it was introduced in London, the agency passing shortly afterwards into the hands of Henry C. Queloh & Co., Ludgate Square, E.C. Mr. Tetlow's fine taste and judgment were (and are) evidenced by the showcards produced to his order, the originals of which, purchased by him, were by artists of the rank of Benjamin Constant and de Cuvillon. He retired in 1890, and the business was continued successively by his only son, Joseph, who predeceased him in 1912, and his only grandson, the second Henry Tetlow, at present a lieutenant with the 314th Infantry in France. On his retirement Mr. Tetlow found fresh outlets for his expansive vitality. He cultivated a fruit farm—where, as recently as 1916, he planted 800 more peach-trees. He also bred mules (some of which have fulfilled a useful function in the war), and found time to devote to music.

Died on Service.

DAVIE.—At Largs, recently, Captain R. C. Davie, R.A.M.C., M.A., D.Sc., aged thirty-two. Captain Davie graduated at Glasgow University, where he gained the Dobbie-Smith gold medal in botany and the Donaldson scholarship in the same subject. After acting as assistant in the Botanical Department at Gilmorehill, he received a similar appointment at Edinburgh University, and became Lecturer on botany under Professor Bayley Balfour. When war broke out he offered his services, but they were not accepted until 1917. Since then he had found scope for his bacteriological knowledge as officer in charge of a sterilising section of a water-tank company. Captain Davie was a Fellow of the Botanical Society of Edinburgh.

Personalities.

MR. JOSEPH DE CARLE SMITH, chemist and druggist (Smith & Sons, wholesale druggist), Norwich, has been appointed a Justice of the Peace for the city.

MR. J. A. DEWHIRST, Ph.C., analyst to the Borough of Halifax, has been granted six months' leave of absence by the Halifax Health Committee with a view to re-establishing his health.

MR. H. A. GREEN, who was with S. Maw, Son & Sons, Ltd., for over thirty-four years, has taken up the position of works manager to Meggeson & Co., Ltd., New Church Street, London, S.E.16.

THE Spectacle Makers' Company, of which the Lord Mayor is Master, have presented a gold badge, with four bars, to Sir John Rolleston, who held office as Master during the past four years.

LIEUTENANT JACK G. S. WOOD, youngest son of Mr. Vincent Wood, surgical appliance manufacturer, Newington Causeway, London, S.E.1, has returned to civil life after demobilisation, and will represent his father on the road.

MR. McMILLAN, the Northern representative of the Proprietary Articles Trade Association, has returned to his home at Wallasey after spending some years in London on national service as an auditor. During this time Mr. McMillan has also given attention to his usual work.

At the annual meeting of the Blackburn Guardian Society for the Protection of Trade, held on February 6, Mr. James Meadowcroft (W. Meadowcroft & Son, Ltd., manufacturing chemists) was re-elected Vice-President, and Mr. Charles A. Critchley, Ph.C., was made a member of the Committee.

MR. W. W. GREEN, J.P., C.C. (F. W. Bowyer & Bartlett), member of the Council of the London Chamber of Commerce and a past President of the Mincing Lane General Produce Brokers' Association, has been unanimously elected Chairman of the Port of London Sanitary Committee on the Corporation of London.

LIEUTENANT GEORGE E. BIRKETT, R.A.M.C., only son of Mr. George Birkett, chemist and druggist, Regent Road, Morecambe, has been awarded the Military Cross for bravery and devotion in the field. Lieutenant Birkett was shot in the back last September while attending to a wounded man, the bullet narrowly missing the spinal cord.

MR. ERNEST SANGER (Sangers, Euston Road, London, N.W.), has been chosen as one of the Municipal Reform candidates for the borough of St. Marylebone at the London County Council election on March 6. Mr. Sanger is one of the present members for St. Marylebone, and is on the Public Health and Asylum Committee of the L.C.C. He is also an active member of the Marylebone Borough Council, where he is Chairman of the Public Health Committee and serves on the Finance and other Committees.

MR. A. S. SNOWDEN, the newly elected President of the Hull Pharmacists' Association, served his apprenticeship at Scarborough with Mr. Alfred Jones, and gained London experience with Mr. C. B. Bramwell, Holland Park Avenue, W. He then went to Mr. G. W. Widdowson, Bromsgrove, and thence to the Westminster School of Pharmacy, from which he qualified. Returning to Hull, he joined Milburn & Co., Scarborough and Hull. Starting in business for himself, he opened a shop at 446 Anlaby Road, Newington. He has been actively associated with the Pharmacists' Association and also with the Buyers' Association. He holds strongly that experience in stores is absolutely necessary for a young man before he starts for himself.

MR. JAMES HENDRY, Ph.C., general manager of A. M. Bickford & Sons, Ltd., manufacturing chemists, Adelaide, South Australia, has been in this country for the past two years engaged in chemical work in a Government explosives factory. His services being no longer required owing to the defeat of Germany, Mr. Hendry is shortly returning to Adelaide, but the next few days will be spent in Scotland, his native country. Mr. Hendry has made many interesting observations regarding the chemistry of trinitrotoluol and other chemicals which were being made in the Government factory. In conversation with him we were struck with the ingenuity displayed in dealing with chemical and engineering difficulties which arose. It seems as though there is no difficulty that a body of trained chemists cannot overcome when the defect has been diagnosed. Mr. Hendry has the advantage that he was trained in pharmacy, thus adding considerably to his resource as a chemist.

MR. TOM ASCOTT, chemist and druggist, 1098 Harrow Road, London, N.W., who died on November 3, left estate valued at 1,493l. 19s. 2d. gross, with net personality 524l. 2s. 6d.

Bankruptcy Report.

Re Pickard, Ive & Rankin, Ltd., 186 Walmer Road, Notting Hill, London, W., manufacturing chemists and druggists.—The statutory first meetings of the creditors and shareholders of this company (in liquidation) were held on February 11 at the Board of Trade Offices, Carey Street, Lincoln's Inn, London, W.C. Particulars of the company's history and collapse have already appeared in the *C. & D.* (February 8, p. 39), the accounts showing total liabilities 35,234*l.* 6*s.* 4*d.*; assets valued at 12,118*l.* 19*s.* 10*d.*; a deficiency of 14,561*l.* 19*s.* 9*d.* in assets to meet the liabilities; and a total deficiency of 16,111*l.* 19*s.* 9*d.*, as regards contributions. Mr. H. E. Burgess, Official Receiver, reported that negotiations were proceeding between Mr. Honeyman, as Receiver for the debenture holders, and certain proposed purchasers for an offer of substantial amount for the company's assets. Those negotiations ought to be carefully followed in the interests of the unsecured creditors, as well as those of the debenture holders. He asked the representative of Bircham & Co. to inform the meeting what progress had been made with the sale of the company's property, but that gentleman replied that he did not possess the desired information. A creditor drew attention to the payment of 4,000*l.* in cash to Messrs. Pickard & Rankin for the secret processes for the manufacture of paranitraniline from benzole, of pure ortho-anisidine from benzole, of guaiacol, and the manufacture of acetic anhydrid, and asked upon what basis that purchase price was fixed. Mr. Pickard replied that it was on the basis of 10 per cent. of the estimated profits to be made from those secret processes during the first year. They had sufficient experience of them to know that a fair bargain was made with the company. The Chairman asked how it was that Messrs. Pickard & Rankin, having sold their business to the company, should be able to carry on their experiments on the company's premises, and using the company's time and material, and then sell the results to the company. Mr. Pickard explained that the business was sold to the company on those terms, but throughout he saw that the company's business was properly carried out. The company used acetic anhydrid for the manufacture of aspirin, and it was estimated that if the process had been fully worked it would have realised a profit of 40,000*l.* for the company during the first year. They had contracts in hand with the Abbey Chemical Co., Ltd., under which they were to supply that company with chemicals during that year to the gross value of 79,000*l.*, one-half of which would be profit. The Chairman inquired how it was that the contracts were not executed. Mr. Pickard said the factory was capable of turning out the goods with the new plant that was established, but it broke down, and the contracts could not be executed. The loss to the Abbey Chemical Co. was stated to be 6,000*l.*, and the arbitrator awarded them 4,399*l.*, including costs. A resolution was passed for Mr. Parkin S. Booth, Kimberley House, Holborn (accountant to the Association of Manufacturing Chemists) to act as Liquidator, with the assistance of the following committee of inspection—viz., Mr. T. H. Rogers (Abbey Chemical Co., Ltd.), Mr. Ryan, and Mr. A. H. Boot (A. B. Hansom & Co.). The following are among the trade creditors: Abbey Chemical Co., Ltd., London; Albright & Wilson, Oldbury; Anninson, H. E., & Co., Ltd.; Associated Rubber Manufacturers, London; Blaeden, Victor & Co., London; Baird & Tatlock, Ltd., London; Brunner, Mond & Co., Ltd., Northwich; Brown & Son, London; "British and Colonial Druggist," London; British Pharmaceutical Works, Ltd., Croydon; British Drug Houses, Ltd., London; Bell, P., Southall; Christiansen, C. A., Southall; THE CHEMIST AND DRUGGIST, London; Chiswick Polish Co., Ltd., Chiswick; Doulton & Co., Ltd., London; Dore, J., & Co., London; Dunn, J., & Son, London; Eveson, G. J., Gas Light and Coke Co., London; Fraser, F. J., & Co., Ltd., Dagenham; Graesser, R., Ltd., Rnabon, N. Wales; Gardner, Wm., & Sons, Ltd., Gloucester; Hanson, A. & B., Ltd., Southall; Harrington Bros. & Co., Ltd., London; Houlder, W., Son & Co., Southall; Harding & Co., London; Lane-Hall, R., & Co., Ltd., London; Ministry of Munitions, London; Pickering, A. H., London; Perkins & Co., Ltd., Leeds; Pickard, J. A., London; Siemens Bros. Dynamo Works, Ltd., London; Thompson & Canner, Ltd., Liverpool; United Alkali Co., Liverpool; Vacuum Oil Co., London; Weston Chemical Co., Ltd., Runcorn; White, Bros., Engineering and Manufacturing Co., Ltd., Stratford.

THE "Manchester Guardian" reports that "the emirs of Northern Nigeria have been devoting so much attention to the ground-nut that a 'record' harvest, just reaped and awaiting shipment, is estimated at many thousands of tons and of a value approaching one million sterling."

Trade Notes.

DRUGGISTS' SUNDRIES OF VARIOUS KINDS, packed goods, feeding-bottles, and a cheap line of saccharin tablets (made of British saccharin) are features of an announcement in this issue by Mr. C. W. Harper, 254 Stockport Road, Manchester.

RETAILERS WILL DO WELL to look up the new prices which the Kolene Co. are issuing for Kolene for the hair. The prices are net, and the sale of Kolene is said to be rapidly on the increase. The address of the company is 206 Stewart's Road, London, S.W.

MENE TOWELS.—The cessation of war has caused a reduction in the price of many raw materials, and Robinson & Sons, Ltd., of Chesterfield, are promptly giving chemists the benefit. A special announcement which that company makes this week regarding the reduced prices of Mene towels will be interesting to all chemists.

ST. JACOB'S OIL has been a long time before the trade, and the public and all retailers will note that the new prices are given in our advertising pages this week. We understand that a considerable amount of public advertising is being done in connection with this old-established remedy by the proprietors, St. Jacob's Oil (England), Ltd., of Forest Hill, London, S.E.

THE "VICTORY ISSUE" of the export price-list of Evans Sons Lescher & Webb, Ltd., makes an instant appeal to the eye by a strikingly designed cover on which the draped flags of the Allies occupy the place of honour. A happily-worded letter of retrospect and forecast appears as an inset; and in addition to the usual features of the catalogue there in an annotated list of articles the Government control on which has been relaxed.

ENGLISH-MADE PARAFFIN LIQUIDUM, without taste or odour, and guaranteed to pass all B.P. tests, is being placed on the market by Benjamin & Co., 61 St. Mary Axe, London, E.C., who are sole selling agents for the manufacturers. Benjamin & Co. recommend buyers to go to them direct for supplies and to sell it under their own brand. This is worth consideration by all buyers of this popular medicinal laxative.

A CHILBLAIN CURE.—An appropriate remedy is being advertised in this week's issue by the Anglo-French Drug Co., Ltd., Gamage Buildings, Holborn, E.C. 1. Dr. Barthe de Sandfort's preparation "Ambrine" is particularly recommended as a cure for chilblains, the candle form being the best to use for this purpose. Ambrine candles are being advertised considerably in the daily Press, so that this will make an increased demand on the retailer. Prices and all particulars will be found in our advertising pages.

BRITISH CHEMICALS.—A welcome and opportune announcement is that made by Howards & Sons, Ltd., of Ilford. They warn the trade (in an attractive page advertisement in this week's issue) that foreign chemicals are again coming into this country, and that patriotic buyers should make sure of handling British goods by buying Howards' pure chemicals. A useful list of chemicals that may profitably be ordered is provided, and no doubt this good advice will be followed by pharmacists all over the British Empire.

SAMUEL JONES & Co., 7 Bridewell Place, London, E.C. 4, are specialists in gummed paper. They recommend that chemists—wholesale, manufacturing, and retail—should seal their packages and bottles with gummed-paper tape. This may serve the double purpose of sealing the receptacle, and at the same time advertising the seller, seeing that on the gummed-paper tape can be printed advertisements of various kinds at a small extra cost. This is worth looking into in these times when twine and publicity are rather difficult to obtain.

Information Department.

INFORMATION WANTED.

- | | |
|--|--|
| 51/39. Dr. Pierce's pildoras. | 51/39. Dr. Munroes' injection. |
| 47/40. Needham's electric oil and pills. | 55/13. Hydrolene for asthma. |
| 50/28. "Aremcol" | 52/41. "Duleigen." |
| "Dawohi" (West African market). | 53/10. "Vorlastic" or "Verlastic" metal paint. |
| | 52/72. "Taxi," for the teeth. |

INFORMATION SUPPLIED.

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|-----------------------------|-------------------------------|--|
| Argentide, 49/6 | "Borol," 17/43 | |
| "Auto" still, 49/55 | Bottle-manufacturers, Castle- | |
| Bates' salve, 10/17 | ford, Yorks, 10/67 | |
| Besorbon snuff, 40/38 | Bow's (Dr.) Liniment, 22/60 | |
| Bickmore's gall cure, 12/50 | Chebet azymes, 30/61 | |

Observations and Reflections.

By Krayser I'.

Mr. Humphrey's Scheme

for a National Association of Pharmaceutical Committees has this among other advantages, that it might lead to the ending or mending of the Local Associations Executive, one great weakness of which is its composite character. With the new Association to deal with panel chemists' interests, this Committee might possibly be made an efficient executive of the Local Associations in relation to purely business affairs affecting us all apart from Insurance work. Or the Council, relieved of responsibility for panel chemists' interests, might be induced to relieve itself further by relinquishing the care of our business interests to an independent Association with the Local Association as its basis, on the model of the Association of Committees, and content itself with the more dignified role of a Council of a professional body, looking after our interests as such. But I fear these schemes are all very much in the air while the said Council continues to sit tight hatching, or trying to hatch, eggs of its own.

Speaking of the L.A.E.,

I am glad to find Mr. Parry of the opinion that the time has come for freeing it from the control of the Council, but, as Selden asked when it was first proposed to expel the bishops from the House of Lords, "When you have turned out the dog, where will you lay the stink?" which is only another way of intimating that a Committee chosen in any such haphazard way as this Committee would still be unsatisfactory. The Executive must be a territorially elected body if it is in any appreciative measure to serve our purpose as a business Council.

The Little Breeze

raised by Mr. David Evans at the Liverpool Association's meeting seems to have amused rather than annoyed the wholesalers present, for, though they rebutted, they did not, apparently, resent his charges. That in some particulars wholesale houses have during the war been a little careless of their customers' interests and unduly careful of their own cannot, I think, be denied, but there is much to be said in extenuation. Allowance must be made for circumstances of unprecedented and unforeseeable difficulty, for natural infirmities of temper and nerve on both sides, for Government's interferences, and so on. Upon the whole, Mr. Evans seems to have spoken too strongly, and to have taken a mistaken view on several points, and I think his complaints would have had greater justification if he had given them a wider scope. My own quarrel with the wholesale houses would be on the ground of their encroachments during a long series of years upon the retailer's province. Mr. Evans seems to have had these, too, in mind; but here, again, the wholesaler has a good defence, and one it is difficult to answer. These encroachments were to some extent inevitable, and we ourselves may be said to have invited them, to have even given him plausible reason to represent them as positive benefits, as indeed some of them were to many of us.

There are "Pharmaceutical Reasons,"

says the brilliant writer in "The New Statesman"—who signs himself "Sardonix," and whose identity with the creator of one of the most convincing pharmacists of fiction I more than suspect—why the circulating libraries do not raise their subscriptions. The epithet is a curious one: why "pharmaceutical"? Can there be in it a reference to the financial problem that is puzzling the wits of 17 Bloomsbury Square? Evidently the meaning is that to raise subscriptions would reduce the number of subscribers, which is just our Council's difficulty. I dare not flatter myself with the notion that "Sardonix" has been reading my notes, but there is a curious correspondence between the case of the libraries as he sees it and what I have said of our Society's. In both cases the

present subscriptions are quite high enough in relation to the benefits received, but that is another story.

The German Soap

of which you gave an account recently was doubtless a perfumed variety of "clay soap," which is now in general use, not only in Germany, but in Holland too, the Dutch Government having announced that for the present and for some time to come no other kind will be manufactured in the country. It is inferior, says the official notice, to the soap substitutes hitherto obtainable, but is suitable for washing the body, though (like a well-known soap of our own) it won't wash clothes. As distributed by the authorities it contains 20 per cent. of fatty acid, and its use is intended to prevent a further shortage of "potash soap," which is now strictly rationed in 2-oz. lots. The situation seems likely to put a strain on the proverbial Dutch cleanliness.

The A.S.P., D.C.W.,

which is, in abbreviated form, the title of the new assistants' organisation, adds a new terror to the prevailing penchant for initials, which already causes trouble enough to a failing memory. Initials are, however, almost obligatory in this case in view of the shortage of paper, for written in full the title runs to nine words and would occupy about a line and a half of this column. It labours under the additional disadvantage of being ambiguous, and to make its meaning quite plain yet another word is required, namely, a copulative conjunction where the comma stands. Surely our assistant pharmacists and drug and chemical workers together can do better than this? There is a good deal in a name, whatever Juliet said to the contrary, and I fear that a title so awkwardly phrased will suggest to some critics of the new Association that it promises to prove a somewhat imperfect amalgam. Personally I sincerely hope it will not.

The Day on which this Note is Written

(February 8) is the centenary of the birth of John Ruskin, and, although Ruskin has no special interest for us as pharmacists, he has a strong claim to be remembered by everyone who is confronted, as we now are, with the problem of the reconstitution of society. For the book which of all he wrote he set most store by deals with even more than his usual power with the economic principles upon which society should be constituted. When its earlier chapters appeared in the "Cornhill" they were, as Sir Edward Cook has just reminded us, received with such a storm of indignant protest that the editor stopped the series, and the same thing occurred when the later chapters were published in "Fraser." The book itself had no better reception; I well remember the chorus of combined ridicule and abuse it called forth. To-day its main principles are very widely accepted even by professed economists, though doubtless a good deal of mere lip-service is paid to them in quarters in which a serious attempt to put them in practice would probably result in a call for machine-guns. I cannot, of course, discuss them here, but at this particular juncture attention may be called to what Ruskin says of trade, its dignity and importance; of wages and the organisation of labour; and of economic as distinguished from absolute value. Ruskin, it may be well to add, was not only not a socialist, but expressly declares that his aim is to extend and fortify the private possession of property. That much of what he advocates was and still is impracticable may be admitted, but if most of his principles had been adopted fifty years ago we should not now have been in the economic position in which we find ourselves.

FRUIT-TREE WASH.—For clearing lichen from fruit-trees the "Board of Agriculture Journal" recommends a thorough drenching with a solution of caustic soda of the strength of 1 lb. to 5 gallons of water.

INDIAN MAGNESIUM SALTS.—The Bombay Government have sanctioned the Pioneer Magnesia Co., Ahmedabad, making a trial on a large commercial scale of manufacture of magnesium chloride and magnesium sulphate by approved methods from bitterns found at Pritchard Salt-works, Kharaghoda.

"SANITAS" NON-POISONOUS DISINFECTANTS

FLUIDS, POWDER, SOAPS & APPLIANCES

Should be stocked by all Chemists.

THE "SANITAS" CO., Ltd., LIMEHOUSE, LONDON, E. 14

S.V.R. — S.V.M.

AND

CHEMISTS' WINES.

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LAMBETH, S.E. 11.

Essential Oils AND Aromatic Chemicals

W. NAUMANN, 40 Charterhouse Sq., London, E.C. 1.

ART OF DISPENSING. (9th Ed.) 6/-, by Post 6/6.
VETERINARY COUNCIL PRACTICE. 4/6, by post 5/-.
CHEMISTS' DICTIONARY OF MEDICAL TERMS. 3/-, by post 3/4.

THE CHEMIST AND DRUGGIST 42 CANNON ST., E.C. 4

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FOR LADIES.

The MENE TOWEL is the most comfortable Towel yet introduced and is Antiseptic.

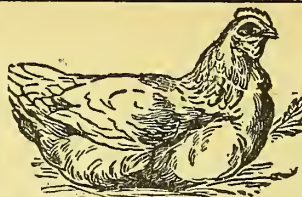
REDUCED PRICES

We gladly announce that owing to the steady decline in price of some of the raw materials from which the MENE TOWEL is made, we have reduced our selling prices, and on and after the 11th February, 1919, all orders will be invoiced to the Trade at the following rates:—

Size 1	Size 2	Size 3	Size 4	
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Obtainable from Wholesale Warehousemen, or direct from the Manufacturers:—

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WATER GLASS

Best value. Largest packers.

SEED DRESSING

Carbolised. Liquid. Our formulae and labels. Sulph. Copper, &c.

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There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting an efficient agent, who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

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REGINALD W. BARKER.

FENNINGS' 50 YEARS' REPUTATION

Children's Powders

ADVERTISED EVERYWHERE. READY SALES.

ALFRED FENNINGS, COWES, I.W.

Antichlorine Concentrated Liquors

offer a perfect alternative to the discarded
B.P. Tinctures and Syrups.

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Editorial Articles.

Trade Boards.

THE application of the Trade Boards Acts to the aerated water trade, which was referred to in THE CHEMIST AND DRUGGIST, February 1, p. 41, is an example of the Government method of regulating wages. As "The Script" suggested recently that this is an alternative method of fixing minimum wages if there is no Whitley Council to make an agreement, and that the process might be applied to the drug-trade, it may be as well to explain the Trade Boards method. The Trade Boards Act, 1909, provided for the establishment of Trade Boards, whose general duties are to consider as occasion may require, and report upon, any matter referred to them by a Secretary of State, the Board of Trade or any other Government Department, with reference to the industrial conditions of the trade. The Boards are further empowered to fix minimum rates of wages, which may be made to apply universally to a trade or to any special class of workers or to any area. There are provisions made for considering any objections to the rates of pay which shall be suggested, and after objections have been disposed of an Order is made by the Board of Trade making obligatory the minimum rates of wages. The Act regulates the constitution of the Trade Boards, there being equal proportions of members representing employers and workers, with members appointed by the Board of Trade. The original Act, which came into force on January 1, 1910, only applied to certain trades, which were named in a schedule. These were tailoring, box-making, lace and net making, and chain-making. There was, however, an amending Act—the Trade Boards Act, 1918—which came into force on August 8, 1918, and made it possible to apply the provisions of the original Act to any specified trade to which it does not at the time apply if the Minister of Labour is of opinion that no adequate machinery exists for the effective regulation of wages throughout the trade. It is under the Trade Boards Act, 1918, that the workers in the aerated waters are having minimum wages arranged. The above paragraph referred to the intention of the Minister of Labour to act, this being in accordance with the provisions of the Act and being intended to afford an opportunity for hearing objections to the proposals.

German Poison-gas Factories.

THE British newspaper correspondents have been shown over one of the German chemical works, and have been duly impressed with its magnitude and the lavish way in which the place was run in the interests of the workers—and of the directors. This was the sort of thing which the technical Press used to print before the war, and it is an astute move on the part of the Hun to endeavour to influence Press representatives who are unacquainted with what is being done in this country to manufacture dyes and other chemicals formerly obtained from Germany. We were particularly impressed with the efforts which the German chemical company made to assure the Pressmen that the factory had not been making the poison gas used by the Germans during the war. This is a healthy sign, but it will be many years before a German's word will be believed without confirmation. German chemical industry can never again occupy the position it did before the war, nor, in the interests of civilisation, must it be permitted to do so. The following extract from the "Frankfurter Zeitung" is not exactly inspiring to German readers:

The works are in the first place resuming the manufacture of aniline dyes and also of pharmaceutical products—the latter, of course, having continued during the war. In Germany and in other countries the stocks of dyes have been greatly diminished. It is necessary first to satisfy the great demand and to accumulate certain stocks in addition. In trade circles it is hoped to find foreign markets within a measurable time. Foreign competitors, apparently, will be unable to supply the demand abroad fully, so that on quantitative grounds recourse will have to be had to German products. The efforts of foreign countries to create a large chemical industry are not underrated, but it is unlikely that they will have serious consequences for Germany, with her long experience, which means a great advantage, especially in the dye industry. Competition is more likely to be felt in the simpler dyes than in the more complicated products. Switzerland, however, in the last years of the war has made great advances in connection with the latter, and may, therefore, compete on ground which was formerly Germany's. Thus a considerable reduction in exports—possibly as much as 40 per cent.—must be reckoned upon. The fuel supply is a source of great anxiety to the industry. The labour question also presents a serious problem.

It will be noted that nothing definite is stated about the progress made in Allied countries in the manufacture of aniline dyes. The "Weser Zeitung," however, gives publicity to a statement of the directors of Friedrich Bayer & Co., Leverkusen, which takes into account the effect of the new factories for the manufacture of dyes, which have been established by the Entente nations. The directors lay stress on the fact that the revolution has completely destroyed the company's prospects. The company introduced the eight-hours' day ten years ago into factories in which work went on uninterruptedly, and now it has been introduced into the day factories in which hitherto the working hours have been nine daily. This curtailment of working hours would not have been so bad had the output continued the same or increased, but, according to the estimate of the factory foremen, it is at present 50 per cent. below that of peace-time. If things continue as at present in Germany, especially in Berlin and in the Rhenish Westphalian and Upper Silesian coal industry, economic ruin is inevitable, state the directors. The workers regard higher wages and decreased output as the salvation of the revolution, and with a complete misapprehension of economic conditions believe that wages can actually be raised still higher. On the other hand, the army orders have ceased, and the production for peace objects, which during the war was only 5 per cent. of that of normal times, owing to the shortage of raw material, has only increased to 10 per cent. at most, and, in consequence of the lack of sales, no further increase is to be anticipated for the next few months. Accordingly, the expenditure on wages and salaries has recently exceeded the receipts to such an extent that the works are existing on their reserves, which in the end will be exhausted. It is obvious, the directors point out, that, with the present high scale of wages, the diminished output, and, above all, with the enormous expenses of all kinds, the works would not be able permanently to compete in the

world's markets. The directors were anxiously awaiting the day when other nations will require to purchase dyes to fill up the depleted stocks, but it is added that it will be necessary, in any case, and possibly permanently, to relinquish a portion of the company's former manufacture. When it is remembered that the company exported 80 per cent. of its entire production in peace-time, it is of extraordinary importance for its future that it should remain capable of competing in foreign countries. The commercial organisation of the company in foreign countries has been completely destroyed, the premises sold, and in India actually burnt. The company has reduced the number of its employees to its peace-time figure. But, to meet the exigencies of the moment, it will be necessary to reduce that number still more. Whatever happens, it will be imperative in the near future to rebuild everything from its foundations, is the rather pessimistic conclusion of the directors. The United States has announced that it is intended to keep German dyes out of that country by means of a prohibitive tariff. In this country steps are to be taken to foster the dye industry at the expense of Germany. France and Belgium will not trade with Germany for goods which they can make themselves or obtain from Allied or neutral countries. At the same time, we must be careful of German aggression in the economic world, and we suggest that after Peace has been declared the certificates of origin at present required of importers of foreign goods should still be called for.

Co-operative Research.

WE have urged on more than one occasion that the organisation of a pharmacological research laboratory is a reconstruction problem of first-rate importance. Briefly, the basis of the scheme is the necessity to this country of original research in pharmacy if we are to retain that part of chemical industry which consists of making fine chemicals. Most of these chemicals are employed in medicine and, although the discoveries so far made in this domain are considerable, they are probably only the commencement of an era of development. The founders of the Pharmaceutical Society always placed in the foreground the educational work with which they were entrusted by the Charter. The School of Pharmacy at Bloomsbury Square has done excellent work in setting up a standard of education in pharmacy, but the work we have in view is an enlargement and reconstruction of the research laboratory which was founded in 1888. We think that a scheme could be evolved out of this beginning which would enable its promoters to claim a grant from the State research fund, but if the money cannot be found in this way there is no reason why the plan should be shelved. We refer again to the matter because, so far as we are aware, no steps have yet been taken by the Pharmaceutical Society in this direction, and also because there is a movement in the United States to establish an institute for co-operative research as an aid to the American drug industry. At a recent meeting of the New York section of the American Chemical Society addresses were delivered upon this subject by chemists, biologists and manufacturers, and since then contributions to the discussion have been supplied by universities, research institutes, and manufacturing chemists. "It is well recognised that the most profitable utilisation of the intermediary products of chemical industry lies in their conversion into drugs" is how one speaker put the matter, and this idea was at the bottom of the endless stream of synthetic drugs with which, before the war, the world was flooded by Germany. As we hope the fine-chemical industry will develop here, we regard a research institute as a necessity. It will probably be urged that the manufacturers will see that this side of the industry is not neglected and that it should be left to them. The Government has made definite grants for research in connection with the dye industry, and the dye factories in this country are by no means neglecting to provide for research. There are, however, distinct advantages attached to an independent institution which can work at problems apart from

financial interests, and it is here that a pharmacological institute would score. The field is, however, broad enough for both classes of research laboratories, and there are ample opportunities in the work to satisfy both the pure scientist and the investor. There is no reason for example why salvarsan should be looked upon as the last word in chemotherapy. Research may bring forward a compound superior to salvarsan, but there is at present no research to this end being carried on in this country. The work need not be confined to synthetic drugs; there is a vast field of study in plant substances upon which comparatively little modern work has been done. Many plants employed in medicine have not yielded up the secrets of their curative action. The study of drugs is a most promising one; and if it became the function of a research laboratory connected with pharmacy it would increase the reputation of pharmacy as a science. The American proposals were referred to a committee for consideration the result of which we shall await with interest.

The Borrowing Propensities

of the Pharmaceutical Council are no doubt necessary. "Xrayser II." has pointed out that on principle money should not be obtained on loan from the Benevolent Fund. It has been so obtained from time immemorial, and perhaps having grown into a habit cannot be corrected readily. We find, however, that the Council has begun borrowing from the War Auxiliary Benevolent Fund, as last month's accounts disclose the fact that a 2,000*l.* loan was repaid. The subscribers to the War Auxiliary Benevolent Fund had probably no idea that the money would be applied to the general purposes of the Society, even though this is only temporarily. We think that the practice is a bad one and should cease.

A New Treatment of Tuberculosis.

SIR LEONARD ROGERS (British Medical Journal, 3032, 1919, p. 147) announces a new line of treatment of tuberculosis similar to the method he has employed in leprosy. By a like process to that by which sodium gynocardate is made from chaulmoogra oil, a preparation has been made of the sodium salts of the unsaturated fatty acids of cod liver oil after extraction by ether, which he terms "sodium morrhuate." A 3 per cent. aqueous solution is sterilised in an autoclave and 0.5 per cent. of carbolic acid added; this may be injected subcutaneously, and also intravenously. Sodium morrhuate has been under trial in India for a year. The author usually begins by injecting 0.5 cc. of the 3 per cent. solution, and increases by 2 to 4 minims at each injection, which may be given two or three times a week until any reaction occurs, then a week's interval is left and the dose reduced. Improvement in phthisical cases is seen in reduction and cessation of the fever, diminution of the expectoration and cough, and steady gain in weight, the last being a very marked and satisfactory feature. In addition, the tubercle bacilli in the sputum greatly decrease in numbers, and may in time disappear. Moreover, they commonly show deficient acid staining and a granular or beaded appearance, indicating that they are actually being destroyed within the tissues. In bringing forward this new form of treatment for such a serious disease as tuberculosis, Sir Leonard fully realises the great responsibility, but the results of a year's trial by several careful workers has convinced him that it is harmless in the doses recommended, which is more than can be said of tuberculin. As sodium morrhuate causes febrile and local reactions, great caution must be observed in pushing the drug beyond the limits which have so far proved safe. The results of its extended trial, to establish its value, will be awaited with considerable interest.

WHALE OIL is used largely in processes of tempering and hardening steel.

ALSACE POTASH.—The French Government assert that absolutely no export shipments of potash will be permitted to leave the Alsatian potash fields for the next two or three years at least. The entire output is to be used to rehabilitate French farms.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Halifax.—At the last meeting of the Insurance Committee, an allotment of 70*l.* was made to the Pharmaceutical Committee from the Medical Benefit Fund, on account of estimated administrative expenses for 1919.

Hampshire.—At the meeting of the Insurance Committee on February 3, the Medical Benefit Sub-Committee reported the receipt of a complaint from the Prescription-pricing Bureau that certain doctors were disregarding the rule regarding repeat mixtures. The Panel Committee had been informed, but had not replied. Mr. Wride said something should be done immediately. He moved that the Sub-Committee be given power to deal with the matter at once. This was not seconded, and after discussion it was decided to await the reply of the Panel Committee.

Isle of Wight.—At the last meeting of the Insurance Committee the new terms for Insurance dispensing were mentioned. All the chemists had undertaken the supply of drugs, etc., for 1919 on the revised terms, excepting Mr. James Dunning, Ventnor, who retired from the panel at the end of the year.

Liverpool.—The Insurance Committee met on February 7, when the Medical Benefit Sub-Committee recommended, with the approval of the Panel Committee, that five panel practitioners be surcharged for excessive prescribing, the total sum involved being 180*l.* Some objection to this course was raised, but after discussion the recommendation was adopted.

Sheffield.—At the meeting of the Insurance Committee, it was announced that the Commissioners have decided that from April 1 a sailor or soldier discharged from the Army is not to be treated on the attendance basis, although he may be suffering from some impairment due to military service. A further advance of 100*l.* is to be made to the Panel Committee, and an advance of 150*l.* to the Pharmaceutical Committee for the administrative expenses for 1919. The pharmaceutical expenses for 1918 amounted to 136*l.* 1*s.* 5*d.*, which are to be submitted to the Insurance Commissioners for their approval. Payment from the Drug Fund for the balance of November and on account of December was ordered to the amount of 1,023*l.* 17*s.*

SCOTLAND.

January Drug Tariff.

Owing to the increased cost of paper and printing, it has been decided not to issue a new Tariff for 1919, but to continue the 1918 Tariff and the monthly Appendix. The January Appendix notifies twenty-four increases and twenty decreases in prices of drugs, and two increases and two decreases in appliances, while a new list is given of prices of containers. The price-alterations are appended:

Name.	oz.	s. d.	dr.	Name.	oz.	s. d.	dr.
Acid. gallic. ...	1	3½	0 2½	Sod. salicyl. ...	0	9½	0 1½
" salicyl. ...	0	8	0 1½	" sulph. eff. ...	0	4	0 1
Ammon. brom. ...	1	0	0 2	Stramon. fol. ...	0	2½	0 0½
Amylum. ...	0	1½	0 0½	Sulphonal ...	16	10	2 5
B. tyl. chlor. hyd. ...	15	5	2 2	Sulph. precip. ...	0	1½	0 0½
Camphor ...	0	10	0 1½	Tinct. asafoet. ...	0	7½	0 1½
Chloro ^l . camph. ...	1	3½	0 2½	" camph. co. ...	0	5½	0 0½
Chloral hyd. ...	2	0	0 3½	Troch. tannic or pot. chlor. 5 <i>d</i>			
Cresotol carb. ...	11	11	1 8½	dr., flat rate monthly revision.			
Ext. belladon. sic. ...	3	9	0 6½	Emplastr. ammon. c. hydr., calc-			
" cinchon. liq. ...	0	11½	0 2½	fac., ferri, hydrarg., picis, plumbi,			
Glycerin ...	0	5	0 0½	resin., or sapon., or calico, 6 <i>d.</i>			
Glyc. bellad. B.P.C. ...	1	1	0 2	per sq. ft. or less, flat rate monthly			
Guaiacol carb. ...	11	11	1 8½	revision; emp. canthar., on calico,			
Hexamina ...	1	2	0 2	2 <i>d.</i> per 12 sq. in.			
Homotrop. hbr. ...	2	1½	gr. 4				
Hyd. iod. rub. ...	0	10	0 11	Containers.			
Lin. chloro ^l	0	10	0 11	Medicine-bottles.—Up to and			
" hydr. ...	0	7½	0 0½	including 1½ oz., 2 <i>d.</i> ; over 1½ oz.			
Lot. hydr. mg. ...	0	11½	0 0½	up to 8 oz., 3 <i>d.</i> ; over 8 oz. up to			
Malonrea ...	11	11	1 8½	10 oz., 4 <i>d.</i> ; over 10 oz. up to 12			
Nap thol ...	1	5	0 2½	oz., 4 <i>d.</i> ; over 12 oz. up to 16 oz.,			
Ol. abietis ...	2	7	0 4½	5 <i>d.</i> ; over 16 oz. up to 20 oz., 6 <i>d.</i> ;			
" caryoph. ...	2	7	0 4½	over 20 oz. up to 24 oz., 7 <i>d.</i> ;			
Paraldehyd. ...	1	1½	0 3	over 24 oz. up to 32 oz., 9 <i>d.</i> ; over			
Phenazon. ...	7	11½	1 2	32 oz. up to 40 oz., 10 <i>d.</i>			
Pil. ferri ...	0	2½	0 0½	Poison-bottles.—Up to 1½ oz.,			
Pot. bicarb. ...	0	9½	0 1½	2 <i>d.</i> ; 1½ to 4 oz., 3 <i>d.</i> ; 4 to 8 oz.,			
" brom. ...	1	8½	0 3	4 <i>d.</i> ; 8 to 10 oz., 5 <i>d.</i> ; 10 to 12			
" permang. ...	0	5	0 1	oz., 5 <i>d.</i> ; 12 to 16 oz., 5 <i>d.</i> ; 16			
P. cret. arom. ...	5	4½	0 9½	to 20 oz., 7 <i>d.</i> ; 20 to 24 oz.,			
Resorcin. ...	0	7	0 1½	8 <i>d.</i> ; 24 to 32 oz., 10 <i>d.</i> ; 32 to			
Rhei rad. priv. ...	0	4	0 1	40 oz., 1 <i>s.</i>			
Sacch. lact. ...	0	4	0 1				

New British Industries.

A Paper read before the Leeds Chemists' Association on February 12, 1919, by S. W. Woolley, Editor of "The Chemist and Druggist."

Now that we are nearing the end of the war it seems an appropriate time to review the steps that have been taken to found or reinstate those industries which are of vital importance to the country—the "key" industries as they are called. It is safe to say that before the war not many of us realised the importance from the national point of view of maintaining a healthy chemical industry. We did not look at our commerce from a war aspect, and in our easy-going way were content to buy in the cheapest market, without a thought that we were making ourselves dependent upon other nations for our means of defence. Five years ago we had realised that we were being stealthily guided along this path by the nation which we now know as the most treacherous and brutal in the world. When war broke out we were compelled to take up many industries which had been neglected. It is proposed to review the work that has been done in this direction, and afterwards to consider the steps that should be taken to maintain the new industries in a prosperous condition. In the following *résumé* groups of manufactures are considered together for convenience.

Alkaloids.—The manufacture of some alkaloids, such as quinine, strychnine, and emetine, was extensively carried on before the war, and other alkaloids were made in smaller quantities. Since the war the manufacture of the rarer alkaloids has been much increased, and cocaine and the glucosides, cantharidin, and digitalin have been made here for the first time.

Analytical Reagents.—A large proportion of the chemically pure reagents used in this country before the war came from Kahlbaum's, one of the poison-gas factories of Germany. T. Morson & Son, Ltd., and The British Drug Houses, Ltd., have, since the war, started special departments for making analytical reagents according to the specifications of the Institute of Chemistry.

Aniline Dyes.—The trade in aniline dyes was practically monopolised by Germany before the war, and when war broke out it was soon realised what a serious disadvantage this was. The dyes used for khaki and navy blue cloth came from Germany, as did the colours for our postage-stamps. Moreover, the textile industry of this country depends upon an ample supply of aniline dyes. As is well known, the Government decided to grant a subsidy so as to ensure the carrying-on in the future of a large dye industry in this country. British Dyes, Ltd., was founded, and has recently been amalgamated with Levinstein, Ltd., the other great English dye works. There are also other companies, such as L. B. Holliday & Co. and Brotherton & Co., Ltd., making aniline dyes. The successful manufacture of these dyes depends upon ample supplies of the intermediate products and the utilisation of by-products. German policy before the war had resulted in the cessation of the manufacture of most of the two hundred intermediate products in this country. Hence, the first problem was to produce in large quantities such intermediates as nitrobenzene, aniline oil, di-methyl-aniline, para-nitro-toluol, paratoluidine, para and meta nitraniline, dinitro-chlorbenzene, dinitrophenol, meta-phenylene-diamine, alpha-naphthylamine, phosgene, and anthraquinone. The following were not being made at all in Britain: alpha and beta naphthol, beta-naphthylamine, dianisidine, benzyl chloride, benzaldehyde, anthrarufine, phthalic anhydride, and salicylic acid. Synthetic indigo was being made at Ellesmere Port in a German factory from imported intermediates. These works were taken over by Levinstein, Ltd., who found that the scientific records had been destroyed by the German manager before leaving. It was necessary to make phenylglycine from aniline in large quantities, and by a process not requiring the use of chloroacetic acid. The difficulties were overcome in six weeks, and the factory is turning out under

British ownership more synthetic indigo than was the case under the foreign *régime*. Some dyes, such as methylene blue and acriflavine, are employed in medicine, but the intimate connection of dyes and drugs arises from the fact that the same raw and intermediate products are employed in the manufacture of both classes of chemicals. As many of these raw materials were needed also for making explosives, it is obvious that much difficulty has been caused to manufacturers taking up the new industry. Naphthalene was a comparatively free product, but the manufacture of derivatives needs sulphuric acid and nitric acid, which, again, were required by the Government for munitions. During the last year of the war the production of aniline dyes was 75 to 80 per cent. of the whole consumption of the country, as compared with 20 per cent. at the commencement of the war. There are about a thousand aniline dyes in use, and the number of those made here is constantly growing. The dye works have during the war been engaged on Government work, but in the meantime the plans for the future have been matured.

Carbolic Acid.—Ample supplies of phenol being needed in the manufacture of explosives, it has been made in this country upon a scale never before approached. In addition to the phenol separated from coal tar, it has been synthesised in large quantities from benzene, this being a new industry so far as England is concerned. Phenol is one of the important raw materials needed in the dye industry, and plenty will be available for use in this connection. The manufacture of phenacetin starts from phenol.

Cellulose Acetate.—The manufacture of cellulose acetate has been started in this country on a large scale. Enormous quantities were employed as "dope" for aeroplane fabrics, and after the war oiled-silk substitutes made from cellulose acetate will probably be used largely in surgery. In pharmacy these will find a use as capping and packing material.

Fine Chemicals.—In 1914 the Germans said that British chemists would never be able to make salvarsan, but it is made in this country by several manufacturers. Novocain, eucain, bromural, urotropin, guaiacol carbonate, organic silver salts, colloidal metals, formalin, barium platinocyanide, luminous zinc sulphide (indispensable for compasses, gun sights, and watch faces), hippurates, benzoates, phenacetin, paraldehyde, nucleic acid, chlorophyll, acetanilide, thymol, thymol iodide, resorcin, phenolphthalein, and bacteriological reagents may be specially mentioned among a large number of fine chemicals which are now being made here. The price-lists of such houses as W. Martindale and T. Morson & Son, Ltd., disclose many other new manufactures of this class.

Glass.—Many kinds of glass came from Germany and Austria before the war. Optical glass, laboratory glass, lamp chimneys, glass tubing, syringes, artificial eyes, x-ray tubes, and glass-blown articles (such as mine horns) are now successfully made here. A Glass Research Committee was appointed in 1914 by the Institute of Chemistry with Sir Herbert Jackson as chief. The Committee analysed numerous kinds of foreign glass and published formulas for their manufacture. A Department of Glass Technology has also been founded at Sheffield University, and, with a Society of Glass Technology, is responsible for much of the progress that has been made in this country since the outbreak of the war. The National Physical Laboratory undertakes the verification of laboratory vessels as well as clinical thermometers. Chance Bros. & Co., Ltd., make every kind of optical glass needed in lenses, periscopes, field glasses, telescopes, microscopes, etc. The search for raw materials has resulted in the discovery of various suitable sands in this country, not only for glassmakers but for use in metallurgical works. Glass wool is now a British-made article.

Hydrogen.—Very large quantities of hydrogen were required for inflating airships—one realises the enormous amount needed after watching a burning Zeppelin slowly falling from the sky like a huge torch and illuminating the country for miles around. Hydrogen is also needed in the manufacture of ammonia by the synthetic process

and in the catalytic method by which liquid oils are converted into hard fats. The hardened fats are used for making margarine, but in the future they may be employed as ointment-bases. The production of pure hydrogen from water-gas has been developed on a large scale.

Laboratory Ware.—The manufacture of porcelain laboratory ware was a German speciality before the war, the Kaiser being financially interested in the Berlin factory. Soon after it was realised that laboratory ware is a necessity in analytical work the manufacture was undertaken by the Worcester Royal Porcelain Co., Ltd., and Doulton & Co., Ltd., and these companies are now turning out dishes, crucibles, combustion-tubes, pestles and mortars, etc., which are of excellent quality. British kaolin suitable for the purpose is available. The little porcelain accessories to incandescent mantles were formerly made by Germans: the manufacture is now British. The production of chemical stoneware has also been taken up in this country. Refractory materials, such as silica, chromite and magnesia bricks, and ferro-zirconia, are now being made here. These are needed in electric furnaces. Filter-papers for the laboratory, and other filtering material previously imported from enemy countries, may be mentioned here as now being made in England. Nickel laboratory ware, which formerly came from Austria, is now made in Birmingham.

Lanolin.—Before the war the whole of the lanolin employed in this country came from Germany, notwithstanding the fact that the British Empire produces the bulk of the wool from which the crude fat is obtained. The lanolin being made in this country at the present time is equal in every respect to the German product. There have been many difficulties to overcome in the manufacture, especially in obtaining the solvents required, as these were needed primarily in the manufacture of explosives. Further developments are taking place by which the wool washings are treated for the recovery of both potash and wool fat. The word "lanolin" is still on the register of trade-marks as belonging to enemy aliens.

Liquid Air.—Sir James Dewar, at the Royal Institution, developed the process of making liquid air, and discovered the thermos vacuum flask required for storing it. These flasks are largely used for keeping liquids hot or cold, and before the war were made in enemy countries. Sir James Dewar subsequently invented the metallic vacuum flasks in which the vacuum is maintained by the use of charcoal. These also were being made in Germany before the war, but are now produced in this country. A special form of the Dewar flask has been devised and used by aviators at high altitudes, and this form of flask was also employed as a first-aid treatment for soldiers asphyxiated by poison gas.

Liquid Paraffin, such as is employed in pharmacy, came from Germany before the war. It is now being made in this country in sufficient quantities to meet all demands.

Metals.—Germany, through a powerful metal trust, had contrived to control the non-ferrous metals, but legislation since the war began has put an end to the monopoly so far as the British Empire is concerned. For making high-speed steel used in cutting instruments, and for armour plates, a hardening ingredient is required. Tungsten, cobalt, manganese, nickel, vanadium, molybdenum, and chromium are the metals employed for these special steels. Steel containing 12 per cent. of chromium is employed in making "stainless" cutlery. Tungsten is also used in a ductile form, for the metallic filaments of electric lamps, and replaces platinum in some parts of the wireless telegraphy apparatus. These metals are now being made in ample quantity in this country. Sodium tungstate and ammonium molybdate are in consequence also made here. Zinc ore, formerly sent from Australia to Germany for smelting, is now treated in the United Kingdom. Zinc oxide used in pharmacy has a larger employment as paint. Nickel is refined within the Empire by British companies. Magnesium metal is now made in England. There has been great development in the manufacture of aluminium alloys and

castings, as these were required in large quantities for aeroplane engines. Thermit, used in reducing the ores of the rarer metals and for welding metals, is now made in this country. Tinfoil, largely manufactured in Germany, is now made here on a big scale.

Nitrogen Fixation.—Nitric acid is required in huge quantities in the manufacture of explosives. It has been made largely from Chili saltpetre, which yields acid sodium sulphate as a by-product. This has been supplemented by an atmospheric nitrogen fixation process such as has been used in Germany, and without which that country could not have continued the war for many weeks. In one of the processes of fixing atmospheric nitrogen, cyanamide is obtained, which can be used as a fertiliser for the land. By the action of steam on cyanamide ammonia is obtained, and this can be oxidised into nitric acid. Ammonium nitrate for use in explosives is also made from cyanamide. The synthesis of ammonia is now being carried out in this country on a large scale by the Ostwald catalytic process. The arc method of producing nitric acid from atmospheric nitrogen, which is worked in Norway, largely with British capital, was started some time ago at Manchester.

Photographic Chemicals.—Before the war all the pyrogallol acid, hydroquinone, metol, amidol, glycin, and para-amidophenol used here came from Germany. All these developing agents are now being made on a large scale in this country. The manufacture of panchromatic photographic plates requires the use of certain aniline dyes in minute quantities. These dyes also came from Germany. Soon after the outbreak of war Sir William J. Pope, now President of the Chemical Society, conducted a research for Ilford, Ltd., which has resulted in the production of sensitisers superior in properties to those which came from the enemy. The whole series of dyes used in photography is now obtainable of British manufacture in ample quantity. Emulsion gelatin and pure baryta-coated paper for photography have been made here since the war on a large scale.

Potash.—The immense natural deposits of potash salts in German territory placed Germany in a position to create a practical monopoly in these salts. The inconvenience of this was apparent upon the outbreak of the war. The Imperial Institute early in 1915 published a pamphlet entitled "The World's Supply of Potash," which stimulated the search for sources of potash. Before the German deposits were discovered this country obtained its potash from wood and kelp or procured supplies from India. The chief use of potassium chloride is as an artificial manure for flax, potatoes, and leguminous crops. Potassium carbonate is used in the manufacture of optical glasses, and caustic potash for the production of soft soap and in the dye industry. Potassium chlorate is needed for the match industry and in making explosives. In medicine, potassium salts, which possess certain physical advantages, are used in preference to the corresponding sodium salts, and since the war a few medical men, in response to an appeal of the Drug Supply Committee, have prescribed ammonium and sodium salts in place of potassium salts. There are no readily available natural sources of potash in this country, but success has attended the recovery of potash from blast-furnace dust. The North Lincolnshire Iron Co. had installed a gas-cleaning plant at their blast furnaces, and the potash-containing dust was employed by Mr. Kenneth M. Chance in his experimental work, which led to the foundation of the British Potash Co. A factory has been erected at Oldbury which is turning out from 400 to 500 tons of potassium chloride per week. At the works of the British Cyanides, Ltd., which adjoin the potash works, there are being made potassium permanganate, ferrocyanide, ferricyanide, sulphate, carbonate and bicarbonate. The manufacture of permanganate of potash has never previously been carried out on a large scale in this country, and the production of red prussiate of potash was confined to Germany for many years prior to the war. Permanganate, which is needed in making saccharin, is also being made in London. Germany's continual threats to hold other nations to ransom on potash can now be disregarded.

Rare Earths.—Prior to the war incandescent gas-mantles were mainly manufactured in Germany. Germans had obtained control of the monazite sands of Brazil and the thorianite of Travancore from which thorium nitrate is made. British capitalists now own the Indian deposits, and a French company controls the Brazilian supply. Cerium compounds are obtained from the same sources, but metallic ferro-cerium employed in pocket lighters does not seem to be made here yet. Cerium fluoride is used in "flaming" electric arcs for searchlights. Zirconia is employed as a refractory material.

Saccharin is manufactured by the Cooper Laboratory, Watford, and Boots Pure Drug Co., Ltd., and is a new manufacture in England. It is now being made here in very large quantities from raw materials produced in this country. The new antiseptics chloramine, dichloramine, and halazoné are made from by-products of saccharin manufacture.

Salicylates.—Salicylic acid and the salicylates were not being made in this country before the war; now they are being made in such quantities that they are being exported. The raw product here is phenol, needed for making picric acid, and now that large supplies are available for chemical manufacturers there should be ample supplies of salicylates. Aspirin (acetyl-salicylic acid) was also made here for the first time after the war broke out. Methyl salicylate and salol are also British manufactures.

Scientific Instruments.—There was a large importation of German scientific instruments into this country before the war. There are now two makers of refractometers and their products have points of superiority over the German instruments. Beckmann thermometers, bomb calorimeters, saccharimeters, and bacteriological accessories can now be obtained of British manufacture.

Sulphuric Acid has been made on a very large scale during the war by both the chamber and the contact processes. At Huddersfield, for example, there is a plant for making sulphuric acid by the contact process which has cost a million pounds. Large quantities were needed during the war for making nitric acid. Sulphuric acid, in great demand for making superphosphates, will now be available, fertilisers being much needed for the crops.

Synthetic Perfumes.—Vanillin, terpineol, aubépine (new-mown hay base), methyl anthranilate (neroli odour), ionone (artificial violet), isoeugenol (carnation odour), benzyl acetate (synthetic jasmine), and heliotropine are among the synthetic perfume materials which are now being made in this country. Terpenaceous essential oils are now produced here in quantity.

Tar-distillation has been largely developed on account of the huge quantities of benzene and toluol needed for the manufacture of explosives. All the large gasworks recovered the volatile hydrocarbons for use in explosives by scrubbing the gas with green oil; the "stripped" gas with which householders were supplied being rendered inferior in lighting and heating properties. An ample supply of benzene for picric acid and of toluol needed in the manufacture of trinitrotoluol (T.N.T.) was obtained in this way. The cresols required for the manufacture of lysol are a distillate of coal-tar. Lysol is a new manufacture in this country since the war.

This survey does not exhaust the list of accomplishments of British industry during the war. There are such articles as camels' hair brushes and certain kinds of surgical needles which are made here now, whereas previously they were imported from Germany, and there is the expansion that has taken place in the growth of medicinal plants. In considering the new industries that have been founded, it must be borne in mind that this progress has been made in face of the great difficulties occasioned by the war. Considering the shortage of labour and the trouble involved in obtaining even necessary apparatus, the results can only be described as marvellous, demonstrating that British grit and resourcefulness have been as manifest in the economic sphere as on the battlefield. It happens that Leeds has contributed in a great measure to the progress that has been made.

The special arrangements made at the Leeds University for training chemists for the dye factories, and the assistance given by Mr. F. W. Branson in promoting the manufacture of scientific glassware, are only examples.

A Drug-trade Policy.

It remains to consider now what is to be the policy of the drug-trade in regard to these new manufactures. There is nobody here who will not agree that we must do our utmost to foster the infant industries and encourage the promoters to further efforts. The Government, having granted large subsidies to the dye-making industry, has decided to afford it a measure of protection. A committee has been appointed to consider what products shall be protected by means of an import duty. There cannot be much doubt that this principle, having been conceded in the case of the manufacture of dyes, will be extended to those medicinal chemicals which are offshoots of the same manufacture. It is not intended to consider the political side of the question, but if protection by means of duties on foreign products is an assistance to an infant industry, there can be no doubt that British chemical industry will prosper. Another suggestion that has been put forward is that the Customs authorities should be armed with further power of tracing the destination of products imported from enemy countries, so that if it is found that large quantities of certain goods are being brought into the country and those goods are essential in nature, steps should be taken to establish the manufacture in Britain. This would require a new department attached to the Customs, and it is doubtful, whatever the apparent advantages of the scheme may be, whether our traders will favour continued oversight of industries by Government officials.

What now, as retail chemists, is our attitude to be in regard to the products of the poison-gas factories of Germany, especially in view of the economic warfare which that country has declared its intention to wage, and that the Huns have carried out a deliberate policy of destroying factories and machinery in Belgium and Northern France? It may be noted in passing that the Hun chemical works are very anxious to divest themselves of the discredit of having made poison gases for the barbarous warfare practised by the Germans. It is fairly certain that sooner or later their products will reappear in England. It is even stated that the Huns have already flocked into certain neutral countries and taken upon themselves the national characters as a disguise for early operations with this country. The Customs bill of entry at present requires that the country of origin of the goods shall be stated, and this requirement ought to be continued so that light may be thrown on these gentry's operations. We may take it that in principle none of us desires to assist the Germans to reinstate themselves in this country. We now realise the fact that German science has no morality, and that German trade is dishonest—a mere cloak for treachery in any country where it is carried on. What Germans think of us has been shown by the utterances of their leaders on many occasions during the past five years. It is only necessary to recall the tocsin of one of the directors of Bayers, who, in an address to the company's workmen, referred to the English under the elegant title of "swine-hound," and abjured the workmen not to tolerate the English but to "lock them in their kennels, slash them across the dirty snout and send them to hell."

There is, however, the view that we have got to live in the same world as Germans, and to trade with them if we are to get even a tithe of the amount of reparation which they will be called upon to pay. The world's trade is a question of price and competition, and in the case of retail chemists it is a matter of supplying the needs of the medical profession and the general public. It will be remembered that at the Local Associations' Conference held in London in 1916 a resolution was carried unanimously:

That it be a recommendation to the Executive Committee that they consider what means, if any, can be adopted by the craft after the war to attack the German chemical and pharmaceutical industry to the advantage of the British and our Allies.

It does not appear that anything further has been done in the matter, but as the rather indefinite expression in 1916 of "after the war" will, we hope, soon be realised, it is time that preparations were made for that event.

One of the best protections against German aggression depends not upon Customs barriers: it is educating ourselves in technical matters to a standard that will make us superior to our competitors. This has been recognised by the Government in the grants that have been made for research and in the foundation of the Department of Scientific and Industrial Research. Cannot we in pharmacy do something to promote the foundation of a research laboratory which shall devote attention to pharmacological questions? If our dye-works are to devise new organic chemical complexities these will need to have their medicinal properties investigated, and a good deal of work will be required to devise pharmaceutical preparations so that the new medicaments may be administered in the most active form. The Pharmaceutical Society might, in connection with the General Medical Council and the London University, devise a scheme for a laboratory that would undertake drug research and the physiological testing of drugs. The conditions for obtaining grants from the million-pound research fund seem to be fairly easy to satisfy, but if not it is certain that the drug-trade would support a scheme which is to benefit the whole country.

The French General Association of Pharmaceutical Syndicates has recommended that the letters "P.F." (*Produit Français*) be placed after synthetic drugs ordered in prescriptions, but in the case of drugs bearing trade-mark names the adoption of a similar plan would not be easy in this country. It is somewhat disappointing that more has not been done during the war to take off the Register of Trade-marks those marks which apply to articles the patents for the manufacture of which have expired. The Pharmaceutical Society might call the attention of the Association of British Chemical Manufacturers to this matter. As Mr. W. J. Uglow Woolcock, M.P., is the general manager of the Association, a sympathetic hearing would be ensured to any representation made by the Society.

Something might also be done by the Pharmaceutical Society in training chemists for the new industries. The Major examination, which, under present conditions, seems likely to die out, might be made a qualification for research work in drug chemistry and chemical engineering.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

THE POSTAL RATES.

Our Parliamentary correspondent states that the Government are being pressed to restore the pre-war rates of penny and half-penny postage.

INCOME-TAX REFORM.

It is expected that the Leader of the House will shortly be in a position to indicate when the long-promised inquiry into the incidence of the income-tax laws will take place.

DENTISTS ACT COMMITTEE.

Our Parliamentary correspondent states that the report of the Departmental Committee on the Dentists Act, which was presided over by Mr. F. D. Acland, M.P., will be issued as soon as it can be printed.

NATIONAL HEALTH INSURANCE.

Our Parliamentary correspondent learns that the appointment of Sir Edwin Cornwall, M.P. (Chairman of the National Health Insurance Commission), as Deputy-Chairman of Ways and Means at the House of Commons has been rendered possible by the fact that when the new Ministry of Health is set up the Commission will be transferred to that body. This may not be for a period of two or three months, but the Commission, as a separate institution, will cease to exist in the near future. Sir Edwin's appointment has been very cordially received in Parliamentary circles; he is an expert in administrative work, has been Chairman of the L.C.C., and is very familiar with the intricacies of private bill legislation.

Associations' Winter Session.

Aberdeen.—A meeting of the Aberdeen Junior Chemists' Association was held in Gordon's College on January 31, Mr. Patterson, President, in the chair. Mr. Bryant, Ph.C., Head of the School of Pharmacy, gave an interesting paper on *A Talk on Patent Medicines*. He pointed out how suggestive advertisements play an important part in their sale. A hearty vote of thanks was accorded to Mr. Bryant.

Birmingham.—The Birmingham Pharmaceutical Association gave a "Victory" dinner and social evening at the Grand Hotel on February 5, the attendance numbering ninety-four. After the toasts of "His Majesty the King" and "The Forces to whose efforts our great National Victory is due" the President (Mr. H. O. Lloyd) addressed the meeting upon the Birmingham contributions to the War Auxiliary Benevolent Fund, the total of which now stands at 760/. He submitted that, although this is a not inconsiderable amount, it should be largely increased. Some pharmacists in Birmingham have not yet contributed; others will no doubt see fit to increase their contributions. Birmingham has advantaged very considerably from the efforts of the Pharmaceutical Military Service Sub-committee, who were responsible for the maintenance of an adequate pharmaceutical service for the city, and it is hoped the pharmacists will not fail to recognise their responsibilities towards those who have been on service, for whose benefit the fund has been inaugurated. The social evening, which was attended by about 130 members and friends, consisted of a programme of dances, songs, and cards, the artists being Miss Dorothy Durban (songs at the piano), Miss Gwen. Cattell (recitations), and Mr. D. R. Whitley (songs).

Carmarthen.—Under the presidency of Mr. Walter Lloyd a meeting of the Carmarthenshire Chemists' Association was held at the Guildhall, Carmarthen, on February 6. Delegates from the South Wales and Monmouthshire Federation were present, including Mr. Leo. Joseph (President) and Messrs. Benson Harries and H. M. Lloyd (Vice-Presidents). Interesting discussions took place on the need of closer organisation amongst chemists, and the school of pharmacy for Wales in Cardiff. It was thought that Wales should be represented by more than one member on the Pharmaceutical Council, and it was decided to ask all the Associations in the Federation to nominate a candidate. It was unanimously resolved that the Association should join the Federation. A vote of thanks was given to the delegates for their addresses.

Chemical Society.—Considering that the question of returning home by rail, tram, lorry, or *per pedes Apostolorum* was an enigma to be solved afterwards, the meeting held at Burlington House, London, W., on February 6, was well attended; Dr. Scott being in the chair. Only two papers were read, both by Dr. Challenger. The first dealt with the *Preparation of Monomethylamine* from chloropierin. Monomethylamine is used in the manufacture of various preparations, especially in that of the explosive known as "tetrad." According to circumstances, the reduction of chloropierin yields various substances: if reduced by pure iron filings and nine molecules of hydrochloric acid, the reaction product contained 40 to 60 per cent. of ammonia. If, however, only a small amount of hydrochloric acid were used, a fairly pure yield was obtained, suitable for a manufacturing process. In his paper on the *Preparation of Monomethylanilin*, the author stated that on condensing anilin and formaldehyde, and subsequent reduction by zinc and sodium hydroxide, 55 per cent. of the theoretical yield of monomethylanilin was obtained, practically free from the tertiary base. The presence of an excess of formaldehyde yielded an increased amount of dimethylanilin. From control experiments made in autoclaves and sealed tubes it was found that 56 per cent. of the theoretical yield of monomethylanilin was the highest amount obtainable. Both papers were discussed.

Great Yarmouth.—The Great Yarmouth Pharmaceutical Association met at 156 King Street on February 5, Mr. J. S. Shearman (President) in the chair. Minutes and correspondence were dealt with, and the War Auxiliary Benevolent Fund was discussed, the hope being expressed that all members would send their subscriptions to the Hon. Secretary before the end of the month.

Huddersfield. At the meeting of the Huddersfield Chemists' Association, held at the rooms of the Chamber of Trade on February 6, Mr. Vincent Shaw (President) in the chair, the Secretary was instructed to write to the editor of the London paper "John Bull" regarding an unwarrantable attack which had been made in that publication on a member of the Association regarding the sale of

a brand of condensed milk at an alleged exorbitant price, and which had already been refuted in the local Press.

Bull.—At the opening meeting of this Association on February 11, with Mr. Snowden, the new President, in the chair, a paper was read by Mr. Clement W. Ridyard, of Codnor, on *Reconstruction and Insurance Dispensing*. In the course of his remarks, Mr. Ridyard said chemists might reasonably go in for better remuneration. In Derbyshire they only got 1s. 3d. per head, and the economies were effected at the expense of the chemist and the insured population. He could only think that the Government was a lot cleverer than they were. Chemists needed better leadership. The mile-limit restriction should be altered. Mr. Sellé, in proposing a vote of thanks to the lecturer, said the cost price Drug Tariff was absurd from a business point of view, the remuneration to chemists being most inadequate. The lecturer was heartily thanked. Mr. Sellé reported that he had interviewed an official with reference to the free treatment of soldiers' dependants, but nothing had been done. He was writing further about the matter. —At a meeting of the Hull Pharmacists' Association at the Grosvenor Hotel, Mr. L. S. Sellé presiding, Mr. Arthur Sidney Snowden was elected *President*, Messrs Earle, R. B. Sawyer, and Sellé *Vice-Presidents*, Mr. Newton *Hon. Secretary*, and Mr. H. Tebb *Hon. Treasurer*.

Irish Assistants.—A meeting of the Cork branch of the Irish Chemists' Assistants' Association was held on February 7, Mr. O'Sullivan in the chair. There was a large attendance. In response to an inquiry it was stated that, so far as could be learned, Messrs. Fielding and Messrs. French & Whelan were the only two firms who had granted the demand for increased wages and a fixed number of hours (*C. & D.*, February 8, p. 50). It was decided to ascertain if any further communication had been received.

Lancs (N.E.).—The annual meeting of the North-East Lancashire Chemists' Association was held at the Victoria Hotel, Cort Street, Blackburn, on February 6, when the following officers were elected for the ensuing year: *President*, Mr. J. W. Aspinall; *Vice-President*, Mr. R. Lord Gifford, J.P.; *Treasurer*, Mr. J. W. W. Openshaw; *Auditor*, Mr. C. M. Parkinson; *Secretary*, Mr. Fred Law; *Committee*, Messrs. W. H. Lightbown (Darwen), W. Holt, junr., J. Eyles, C. A. Critchley, H. Martin, H. Y. McCarthy, and the officers. It was stated that during the year a sum of £11. had been subscribed by members through the officers of the Association to the local and pharmaceutical war funds. A resolution of congratulation was passed on the election of Mr. Chas. A. Critchley as a member of the Blackburn Town Council for St. John's Ward. Mr. J. Isherwood reported that the Pharmaceutical Committee, in considering the Insurance Drug Tariff, had summarised their opinion under the following heads, and the Secretary was instructed to forward it to the Local Associations Executive: (1) No give-and-take policy should be allowed in fixing tariff prices. (2) Actual list prices, or quotations, if not listed, of one firm only. (3) All special quotations should be published in the "Journal." (4) Solid and liquid drugs should be priced at drachm, ounce, and one pound rates only, and not at 7 lb., 14 lb., 28 lb., or Winchester rats. (5) Where there are several qualities of a drug the price of the best should be fixed upon. (6) Tariff prices should only be calculated to one decimal place. (7) Prices of all tablets and capsules should be fixed at not more than the 100 rate. The Association approved the action of the Pharmaceutical Committee.

London (N.).—The monthly meeting of the North London Pharmacists' Association was held on February 4 at the Progressive Pharmacy Club. Mr. J. C. Carter was in the chair, and Mr. F. Pilkington Sargeant was the Councillor invited to speak. He said he was glad to be at North London once again. He was conscious that he was not always in agreement with the attitude of the Association, but it was not always a virtue to be unanimous. Dealing with conference problems, he pointed out that the object was to arrive by discussion at some common ground for action and prevent a house being divided against itself. There were two conditions to be observed: one was that it should take place early in the year, and the other was that it should be as representative as possible, as had they held it in the two previous years there would have been many who could not have come owing to the military service requirements and being single-handed. On National Health Insurance remuneration, he said that no one was satisfied, and it would be one of the most important subjects at the conference. What the basis should be it was not for him to say, but one thing was certain: it had to be much better than it was at present. The cost-price of drugs was a basis which he did not think it would be advisable to impugn, but the professional fee must be adequate. Whether it would be advisable to go in for a flat rate was also likely to be brought forward. In any case, he contended that we should have a settlement firmly and tactfully suggested, and

one which could stand for a reasonable time, as it was not dignified to have to be always going to argue on decimal points. The Ministry of Health would stabilise the position of pharmacists as dispensers to the nation and the medical profession should not encroach. After dealing with the venereal clinics and pointing out that there was a very fair amount of dispensing done at them, he turned to organisation, which he said was not perfect, but very nearly so. Powerful associations were necessary, and these should be built up on a solid foundation. On the Whitley Councils, he said that the term put that blessed word Mesopotamia to shame. Whenever a man uttered the word Whitley Council he was supposed to know all about organisation, and had said the last word. Mr. Sargeant contended that an industry was not inclusive of the profession of pharmacy, that it could not apply, and that where the scheme had been set up in industries it had failed and been abandoned. In the face of that we were being asked to apply it to our own profession, which would be a farce. In this trade-union idea they would be swamped by the unqualified. Pharmacy was something apart. He ventured to predict that it would all fizzle out. There was no room for two bodies, and he stood by the policy of the secretary of the society who had made that pronouncement on unity before this association. All trade and professional interests could be dealt with by the Society, and there was no necessity for any division on that score; the record of the last few years was sufficient to convince the most prejudiced person that the Society could do these things. The business of the chemist and druggist was miscellaneous, and the council could protect the lot. On the Organisation Committee's report he outlined what it was intended to lay before the associations and discuss at the conference. Incidentally he pointed out that the grouping suggested would give a more equitable representation at the conference and so remove London's grievance. He referred to the success of the checking bureau, Army service, and said that the Society was beginning to wake up to an extent that the small man scarcely realised. In the discussion which followed Mr. Skinner countered all the speaker's points over the Whitley Council, and pointed out that he had not the remotest notion of the extent of the movement for linking up the whole of pharmacy. He welcomed the suggestion that London should be more adequately represented at the conference. As for fizzling out, he pointed out that many things had had that said about them by people who did not take the trouble to understand what the movements really were. Mr. Lloyd dealt with industries and trades, and urged that Mr. Sargeant was wrong in saying that Whitley Councils were abandoned. Mr. Gwinn asked whether Mr. Sargeant would favour managers being represented on the Insurance and Pharmaceutical Committees. Mr. Bowie congratulated Mr. Sargeant on his eloquent speech. Mr. Sargeant, in reply, reiterated his opinions on the Whitley Councils, and affirmed trade unionism in pharmacy would fizzle out. He was not in favour of representation of managers on the various committees.

Society of Public Analysts.—The annual general meeting was held at Burlington House, on February 5, when the President (Dr. Samuel Rideal) delivered his annual address. The following were elected as officers and Council for the ensuing year: *President*, Dr. Samuel Rideal; *Vice-Presidents*, Messrs. W. T. Burgess, G. N. Huntly, and Alfred Sneltham; *Treasurer*, Mr. Edward Hinks; *Acting Treasurer*, Mr. E. W. Voelcker; *Hon. Secretaries*, Messrs. P. A. Ellis Richards and E. Richards Bolton; *Other Members of Council*, Messrs. Leonard Archbutt, Edward J. Bevan, A. Chaston Chapman, Bernard Dyer, George Embrey, Otto Hehner, E. W. Voelcker, J. Augustus Voelcker, W. Bacon, W. J. A. Butterfield, H. G. Colman, G. D. Elsdon, R. Hellon, D. Lloyd Howard, H. Hurst, C. A. Keane, W. H. Simmons, W. Lincoln Sutton, G. Rudd Thompson, and J. E. Tocher. At the ordinary meeting which followed Mr. John Allan read a paper dealing with the *Technique of Iodine Determinations*. He said that in certain processes involving changes in the composition of oils control is obtained by determination of the iodine value. The arrangements were described for carrying out of a large number of iodine-value determinations in a minimum of time. The sub-division of certain varieties of oleaginous seeds preparatory to analysis is attended with difficulty, as they easily form pastes which clog ordinary milling machines and give a product the extraction of which is highly unsatisfactory. The author described a machine which overcomes this and other difficulties, and besides being easy to operate, gives a product in a highly suitable condition for subsequent treatment in analysis. Mr. D. Pullman next described a process of *Recovery of Nessler Solution*, in which the whole of the mercury and iodine is recovered from used Nessler solution by the addition of a soluble mercury salt to the neutralised residues.

Trade Report.

42 Cannon Street, E.C. 4, February 13, 3 p.m.

THERE is evidence of a rather better tone in several directions this week, probably owing to the fact that export business is gradually broadening as the result of licences being more freely granted. Prices, however, have still a decided downward tendency, especially in the fine chemical group, and the forcing down of values has become more accentuated this week. Bromides have declined considerably, the market being more or less demoralised in second-hands. Aspirin, barbitone, benzoates, chloral hydrate, methyl salicylate, phenacetin, salicylates, salol, theobromine, and caffeine have all been offered at lower rates. Menthol and Japanese slab camphor are dearer, with an improved spot business. English camphor, bismuth salts, ethers, iodides, strychnine salts, and mercurials are quite steady. Makers find it difficult to obtain sufficient supplies of quinine from the Government "pool" for their customers. Ammon. carb. is 1d. lower; acetic acid is also cheaper. Other products which have declined include albumen, egg yolk, farina, Chinese galls, gambier, wood oil, Japanese wax, peppers, and pimento. Rhubarb is getting scarce and dearer; opium is likely to be considerably lower presently in view of offers from Macedonia. Tragacanth has sold freely for export; fine white is very scarce and dear. There was little demand for drugs at auction.

Higher	Firm er	Easier	Lower
Camphor (Jap. ref.)	Cascarilla	Albumen	Acetic acid
Lavender oil (cr.)	Milk sugar	Anise oil, star	Ammon. carb.
Menthol		Arsenic	Amyl acetate
Rhubarb (H.D.)		Cannabis indica	Aspirin
		(Bo mby)	Barbitone
		Caffeine	Benzoic acid
		Cinnamon-leaf oil	Bromides
		Clove oil	Calumba
		Condurango	Chloral hydrate
		Copaiba	Cinnamon(c.i.f.)
		Farina	Colocynth
		Myrrh	Coconut oil (cr.)
		Nux vomica	Cream of tartar
		Pepper (Tell. and Alleppy)	Fusel oil
		Peppermint oil (Amer.)	Galls (Ch.)
		Salol	Gambier
		Tartaric acid	Gamboge
			Ginger
			Glucose
			Hen yolk
			Honey
			Methyl salicylate
			Mint oil (Jap.)
			Opium
			Phenacetin
			Pimento
			Rosin
			Saccharin
			Salicylic acid
			Sarsaparilla
			Senega
			Silver
			Soda salicylate
			Theobromine
			Witch hazel leaves
			Wax, veget. (Jap.)
			Wood oil (Ch.)
			Zinc oxide

Cablegram.

NEW YORK, February 13.—Business is fair. Menthol is lower at \$5.75 per lb., and peppermint oil in tins has advanced to \$5.50 per lb. Mexican sarsaparilla has been reduced to 30c.

ACETIC ACID is lower, as raw material is now plentiful and cheap, but it is still difficult to obtain freight from the U.S. Glacial is offered at 120% to 125% and 80-per-cent. pure at 100% per ton for parcels afloat; glacial on the spot is 135% to 140%.

AGAR-AGAR is slow of sale at 2s. 6d. per lb. for No. 1 Kobe strip on spot.

ALBUMEN.—Egg is easier at from 4s. 6d. to 4s. 9d. on the spot, with March-May shipment offering at 4s. to 4s. 1d. c.i.f.

AMMONIA CARBONATE.—Makers have reduced the price by 1d. per lb. to a basis of 6½d. net for lump and 6¾d. net for powdered in casks, with smaller-sized packages extra. Ammonia muriate is unchanged at 50% for galvanisers'

quality; sal ammoniac is also unchanged at 80s. for first lump and 75s. for seconds.

AMYL ACETATE is about 6d. per lb. cheaper, makers offering good commercial at 4s. and pure (pear oil) at 4s. 3d.

ANISE OIL, STAR, is still being depressed in the interest of "bear" sellers, 4s. 9d. being quoted for "Red Ship" brand on the spot and 4s. 6d. c.i.f. to arrive.

ARSENIC.—The tendency is easy, with very little demand, prices for white powder ranging from about 72% upward delivered London. A recovery in value is rather a remote possibility.

ASPIRIN is the subject of keen competition, and in their anxiety not to miss business some holders are quoting 12s. to 12s. 6d. per lb.

BARBITONE is about 5s. cheaper, with spot sellers at 75s. per lb.

BELLADONNA.—Irish-grown root is offered at 3s. 6d. and leaves at 2s. 6d. per lb. In the drug-auction 2½ cwt. of English-grown, analysing 0.47 per cent., and one bag analysing 0.59 per cent., were bought in at from 3s. to 3s. 3d.

BENZOATES.—Benzoic acid etoluol is cheaper, with spot offering at 13s. 6d., and for benzoate of soda 15s. 6d. is asked.

BROMIDES are lower. English makers are in a position to offer good quantities at the recently reduced prices. They quote: potassium crystals at 4s. to 4s. 6d., granular 3s. 9d. to 4s. 3d., ammonium 4s., and sodium at 3s. 6d. The following are the prices of the American makers which came into operation on January 22: Potassium, granular, 50c. per lb., sodium 55c., ammonium 50c., strontium 50c., camphor monobromated, U.S.P., \$3.75, calcium 85c., cadmium \$1.80, lithium \$2.25, and bromoform \$3.00 per lb. The second-hand market in London has met with a severe decline, and holders have shown a feverish anxiety to make sales, potash offering at from 3s. 5d. to 3s. 6d., soda at 2s. 9d., and ammonia at 3s. Demand has, however, been small, although the present rates look attractive.

CAFFEINE has sellers at 42s. 6d. per lb. on the spot for pure alkaloid.

CAMPOR (REFINED).—Japanese 2½-lb. slabs have been in more demand at varying but higher prices: towards the close of last week spot sales were made at 6s. 1½d. to 6s. 3d., but holders have since sold at 6s. 6d. to 6s. 9d.; ¼-oz. tablets have been sold at 7s. 6d., with 7s. 8d. asked.

CANTHARIDES.—Russian are maintained at previous prices, fair to good bright offering at from 11s. 3d. to 12s. 6d. per lb.

CASCARA SAGRADA.—Spot prices are maintained at from 150s. to 155s. per cwt., the latter for four-year-old; sales have been made at the lower price: to arrive 107s. 6d. c.i.f. is quoted for immediate shipment. The London stock at the end of January was 47 tons, against 62 tons in January 1918, the deliveries for January being 5 tons and the landings 29 tons. In the drug-auction 68 cwt. of coarse and thick bark sold without reserve at from 110s. to 112s. 6d. per cwt.

CASCARILLA.—The Cedar Branch from Guayaquil has arrived in London with 281 bales. Fair twiggly is obtainable at 2s., and siftings at 1s. 6d. per lb.

CHAMOMILES are about 10s. per cwt. cheaper, creamy white French offering at 275s. per cwt.

CHLORAL HYDRATE is subject to keen competition, which has driven down the price to 8s. 9d. per lb. for duty-paid crystals.

CINNAMON is cheaper for shipment, Ceylon usual assortment offering at 1s. 1d. c.i.f.

CITRIC ACID is quiet at 4s. 6d. per lb. on spot.

CLOVE OIL continues weak, with second-hand sellers at 11s. 6d. to 12s. per lb.

CLOVES.—Zanzibar continue quiet, with spot sellers of fair at 1s. 1d., and to arrive, March-April shipment, 1s. c.i.f. d.w.

COCONUT OIL.—Crude oil is 10% per ton lower at 50% per ton for oil shipped after February 18.

COD-LIVER OIL.—Our Bergen correspondent writes on February 3 that "the news from the Norwegian cod-fishing centres is very scanty and does not permit of prognostications. It is reported that the livers contain 50 per cent. of oil." From other sources we hear that the prospects for the present are not very cheerful. There has been an improved inquiry this week.

CREAM OF TARTAR continues dull of sale, 98-per-cent. powder offering at from 350s. to 360s. per cwt. on the spot. Calcium acid phosphate is more freely offered at lower prices. Cream of tartar has been transferred from the "A" to the "C" list of exports.

EGG-YOLK is cheaper, hen offering at 90s. per cwt. c.i.f. for little distant shipment, the spot value being reduced to 140s. per cwt.

FARINA is dull and easier, with spot sellers of No. 1 Japanese at 38s. and afloat at 37s. 6d. c.i.f.; sweet-potato flour is also dull at 38s. spot.

GALLS.—Chinese are lower, with sellers to arrive at 90s. c.i.f.

GAMBIER is lower, with sellers of good marks at 40s.; at auction 370 cases block sold without reserve with all faults at 31s. to 34s. per cwt., landing weights.

GINGER.—Sierra Leone is cheaper, with sellers to arrive at 45s. per cwt., Liverpool. In the drug-auction four bags of sea-damaged Japanese sold at from 27s. to 32s. 6d.; the sound value is about 80s.

GLUCOSE.—In view of the large shipments of liquid close at hand it is anticipated that spot supplies will be available shortly at about 50s. per cwt.

HENBANE.—Irish-grown is obtainable at 2s. 9d. per lb., or slightly less for quantity.

HEXAMINE has been sold as low as 4s. 9d. during the week, but prices are now firmer at from 5s. to 5s. 6d. Raw materials like methyl alcohol and formaldehyde are, however, advancing in the U.S.

LAVENDER OIL.—For finest French sellers ask the higher rate of 33s. per lb. on spot.

LINSEED OIL.—At the Baltic Sale Rooms on February 7 the Ministry of Food offered by auction for export 500 tons lying at mills in the London district, of which 305 tons sold at 75l. per ton net, naked, ex mill, refinery, or store usual contract terms.

MENTHOL has shown more activity, a fair spot business having been done in Kobayashi-Suzuki at from 19s. 3d. to 19s. 9d. per lb., closing quiet.

METHYL SALICYLATE is weak at from 4s. 6d. to 5s. per lb. on spot.

MILK-SUGAR.—All the cheap parcels appear to have been disposed of, and nothing is now obtainable below 1s. 7d. to 1s. 8d. per lb. for good quality. One holder asks 2s. 6d. per lb., which is said to be the "Government price." It is also said that the Ministry of Food is restricting importation in order that prices may be maintained, and their losses on the stocks held by them minimised.

MINT OIL.—Japanese dementholised is lower, the sales including Kobayashi-Suzuki at 4s. 6d. per lb. on the spot.

OPIMUM.—There is a good prospect of receiving supplies of Salonica opium from Macedonia, and offers have been made of moderate quantities at prices showing a considerable reduction on those now ruling. Buyers have not responded, but in view of these offers the general position of opium is weaker, and it is anticipated that prices will show a big decline in the course of the next few months. The prospect of receiving supplies from Turkey has also to be considered, but for the time being this remains a closed market, and nothing may be done until Peaco is signed. Persian is nominal at 70s. per lb. for 10 per cent., but is inclined to ease. Prices for Persian have been well supported for a lengthy period by direct purchases of Far Eastern buyers.

PEPPER.—Black Singapore is quiet at 1s. on spot, and at 10d. c.i.f. London for February-March shipment. Tellicherry on spot is easier at 9½d. to 10d., and Aleppy at 9½d. White Singapore on spot is 1s. 3d. and white Muntok 1s. 2d.

PEPPERMINT OIL.—With further arrivals of American spot prices are on the easier side at from 26s. to 27s. per lb. for finest in tins, as to seller. (See also drug auction.)

PHENACETIN continues weak, sellers offering at 15s. per lb.

PIMENTO.—Spot sales have been made at 3½d. per lb., and further buyers, sellers asking 4d.

PODOPHYLLUM-ROOT is offered at 90s. c.i.f.; there is very little on spot, but some parcels are about landing.

POTASH PERMANGANATE.—American and Japanese make can be had at 7s. 6d. to 8s. per lb., and is fairly plentiful. English is offered at from 5s. to 6s., as to quantity.

POTASHES are still under Government control, and owing to scarcity the price of Montreal potashes is nominal.

QUININE.—The English makers report that the quantities of their quinine which they are allowed to purchase from the War Office Contracts Department continue to be too restricted to enable them to distribute more than a small portion of what is ordered. Endeavours are being made to obtain another permit to enable the immediate needs of regular customers to be met.

ROSIN.—Circumstances now permit of licences being more liberally granted, and prices show a decline of 10s. per cwt. The United Kingdom Rosin Distributors' Association are offering the following: American B/G at 45l., H/M 46l., N/WV on the spot 47l. 10s. per ton net cash, ex warehouse or store. French or Spanish B/G at 44l., H/M 45l., N/upwards 46l. 10s. per ton. Tare allowance, 20 per cent. American, 7 per cent. French or Spanish. The above prices are ex store U.K. ports where stocks exist. The offices of the Association are at 28 St. Mary Axe, London, E.C.; 23-24 Imperial Buildings, Exchange Street, Liverpool, E.; 142 Queen Street, Glasgow. Buyers must send inquiries through their usual sources of supply.

SACCHARIN remains weak, with spot sellers of American 550 at from 145s. to 150s., with some asking 160s. per lb., duty paid. Further arrivals have taken place from U.S.A. A New York advice, dated January 20, reports that holders are willing to dispose of their stocks on the basis of \$4 to \$4.50 per lb. Makers are quoting spot at \$6.50 per lb., with a jobbing business passing.

SALICIN has been practically unobtainable for many months, but the makers hope to supply very limited quantities in a few weeks.

SALICYLATES.—With cheaper raw materials sellers have appeared at 2s. 9d. for B.P. *salicylic acid* powder. In the drug auction three kegs of B.P. crystals were offered without reserve, but no bids were made. *Soda salicylate* is also cheaper at 4s. 3d. to 4s.

SALOL.—Spot sales have been made at 6s. 6d. per lb., being about 6d. cheaper.

SALTPETRE.—In referring to the reduction in English refined saltpetre last week an error occurred in the prices quoted, which for small parcels range from about 68l. to 70l. per ton, with the usual scale of reduction to wholesale buyers.

SENEGA is cheaper, with sales of good bright on the spot at about 5s. per lb., and for prompt shipment 4s. 9d. c.i.f. is quoted.

SHELLAC is unaltered, with spot sellers of TN Orange quality at from 240s. to 250s. in bags and 260s. to 265s. in cases; fine orange is 310s. to 340s.; AC Garnet, cakey, is 275s., all spot.

TRAGACANTH.—A large export business has been done recently, and there is still a good demand. Fair arrivals have taken place, with more to follow. There is, however, a scarcity of fine white qualities, and these have been sold at extremely high prices.

TURPENTINE.—The Turpentine Distributors' Association, 2 Bury Court, E.C. 3, are now offering American, French or Spanish sellers' option at 100s. London, 101s. Liverpool and Glasgow, 102s. Bristol, Manchester, and Hull.

VALERIAN.—Indian on the spot is offered at from 290s. to 372s. 6d. per cwt., as to quality.

VANILLIN has sellers at from 54s. to 56s. per lb.

WITCH-HAZEL LEAVES are cheaper, with sellers of good bright green at 2s. 10d. on spot, some asking 3s. 6d.

WOOD OIL.—Chinese is about 10s. per cwt. cheaper at 110s. per cwt. net for spot ex wharf London and 85s. c.i.f.

London Drug-auctions.

Commercial Sale Rooms,

Mincing Lane, February 13.

Although a fair quantity of goods was brought forward very little was disposed of, the tone being similar to that prevailing at the January auction. Prices generally favoured buyers. Aloes of all descriptions is steady to firm, especially in the case of Socotrine. Sumatra benzoin was extremely slow, likewise cardamoms, of which a good selection was on offer. Calumba continues neglected, the increasing arrivals depreciating the price. Cascara sagrada was forced off without reserve at lower prices. Dragon's-blood is about steady, but for Siam gamboge a decline of 1l. to 2l. was accepted for a few cases. Ergot maintains its previous price, which buyers are reluctant to pay. Eucalyptus oil is flat. Large quantities of honey met with a poor reception, only a small business being done at a decline of from 20s. to 30s. per cwt. Matto Grosso ippecacuanha was slow of sale, prices being the turn easier. Somali myrrh sorts brought easier prices, and for nux vomica prices are inclined to ease also. Rhubarb was practically all withdrawn, but private prices are dearer. Large quantities of sarsaparilla were again offered, but there was practically no demand, and lower prices look inevitable. Tinnevely senna is steady, but the demand is only retail. Beeswax of all kinds was quite neglected.

The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Agar Agar	...	8 ... 0	Buchu	...	5 ... 1
Aloes	Calabar-beans	...	2 ... 2
Cape	...	25 ... 7	Calumba	...	210 ... 0
Curacao	(cs.)	21 ... 0	Camphor oil	...	94 ... 0
Socotrine (bxs.)	...	20 ... 0	Cannab. ind. (African)	...	35 ... 0
Do. (tins)	...	50 ... 0	Do. (Amer.)	...	10 ... 0
Anise	...	9 ... 0	Do. (E. I.)	...	4 ... 2
Anise, star (Ch.)	...	51 ... 0	Cantharides (Ch.)	...	1 ... 1
Arecs	...	36 ... 0	Cardamom oil (pkgs.)	...	12 ... 0
Argol (Cape)	...	78 ... 0	Cardamoms	...	190 ... 9
Arrowroot (St. V.)	...	5 ... 0	Cardamoms, wild	...	20 ... 0
Bat-leaves	...	3 ... 0	Cascara sag.	...	430 ... 63
Belladonna-leaves (cwt.)	...	3 ... 0	Cascarilla	...	8 ... 0
Boldo-leaves	...	4 ... 0	Cassia oil	...	5 ... 0
Cactus grandiflor.	...	1 ... 1	Chiretta	...	10 ... 0
Benzoin	Cinnamon-bark oil	...	4 ... 0
Palembang	...	27 ... 0	Cinnamon-leaf oil (cs.)	...	32 ... 0
Siam	...	12 ... 0	Coca-leaves (Jr.)	...	53 ... 0
Sumatra	...	158 ... 9	Cochineal	...	25 ... 0

Offered				Sold			
Colocynth	...	4	...	4	Liquorice-root	...	119
Condurango	...	40	...	0	Myrrh	...	37
Copaiba	...	5	...	0	Nux vomica	...	1140
Coriander-seed	...	100	...	0	Olibanum	...	172
Cumini-seed	...	157	...	0	Orange-peel	...	8
Damiaua	...	8	...	0	Oris (Mor.)	...	26
Dill-seed	...	1	...	0	Papain	...	8
Dragon's-blood	...	29	...	2	Peppermint oil (Wrs.)	...	12
Egg-yolk (pow.)	...	3	...	3	Rhapontica Ch.	...	20
Ergot	...	38	...	4	Rhubarb	...	(cs.) 20
Eucalyptus oil	...	54	...	1	Salicylic acid	...	(kgs.) 3
Euphorbium	...	32	...	0	Sandalwood oil	...	(tins) 2
Fennel-seed	...	120	...	0	Sassafrasbark	...	89
Feunigreek-seed	...	40	...	0	Seena and pods—	...	183
Gamboge	...	18	...	2	Alex.	...	463
Ginger (Jp.)	...	4	...	4	Timnevely	...	306
Ginger oil	...	(Wrs.) 2	...	0	Squill	...	3
Ground ivy	...	(cvt.) 7	...	0	Stavesacre	...	9
Gum acacia	...	100	...	0	Strophanthus	...	242
Gum-chicle	...	20	...	0	Tamarinds (W.I.)	...	3
Henna	...	146	...	0	Taraxacum	...	(tons) 6
Honey—					Tonka-beans (Para)	...	279
Argentine	...	59	...	0	Turmeric	...	10
Australian	...	129	...	0	Uva ursi leaves	...	13
Brazilian	...	78	...	0	Valerian	...	13
Californian	...	323	...	110	Wax (bees)—		
Cape	...	50	...	0	Abyssinian	...	176
Chilian	...	79	...	0	Cuban	...	27
Cubau	...	598	...	0	East Indian	...	71
Demarara	...	5	...	0	Egyptian	...	42
Dominican	...	42	...	0	Jamaica	...	50
Hayti	...	80	...	1	Morocco	...	68
Japanese	...	224	...	60	Azobique	...	218
St. Lucia	...	(cs.) 187	...	5	West Indian	...	2
Insect-flowers	...	5	...	0	Wax, carnauba	...	80
Ipecacuanha—					Wood oil	...	(cs.) 200
Matto Grosso	...	24	...	3			
Kava-kava	...	16	...	0			
Kino	...	5	...	0			
Kola	...	170	...	0			
Lime oil	...	2	...	0			

* Sold privately.

ALOES.—Cape was steady but quiet, seven cases ordinary dullish, part loose seconds, selling at from 53s. to 54s.; for good livery Curaçao in cases 120s. was wanted, and for 20 small boxes of Socotrine, consisting of good liver, 220s. was suggested as the price.

ARECA.—The scarcity has been relieved by the offer of 20 bags of good bright genuine Ceylon, for which a suggestion of 240s. was made.

BENZOLIN.—Not a package sold in auction, but although the stock is now plentiful, holders maintain prices. Good well-packed almondy seconds offered at 11l. 10s. per cwt. down to 8l. 10s. to 9l. 7s. 6d. for thirds.

BUCHU is firmly held at the recent advance, 8s. 6d. per lb. being asked for good round greenish, slightly stalky, and from 7s. 3d. to 7s. 9d. for small yellowish round, slightly stalky. A single small bag of ordinary bronzy long sold at 2s. 6d. The exports from the Union of South Africa during September 1918 were nil, against nil in the corresponding month of 1917. The nine months (January-September 1918) amounted to 89,675 lb. (16,948l.), against 121,494 lb. (19,696l.) in 1917.

CACTUS GRANDIFLORA.—A single bag sold at 2s. per lb.

CALABAR BEANS.—Two bags of fair sold at 7½d. per lb., subject to seller's approval.

CALUMBA is arriving freely, but buyers still hold off, no business being done in auction. They would probably be able to buy at from 180s. to 200s., and slightly less for fair natural sorts.

CANNABIS INDICA is tending easier, two cases of fair Bombay tops being sold at 16s. per lb.; for 15 bags of African 4s. was wanted.

CARDAMOMS were almost a dead letter, although some nice quality was on offer. Extra bold good pale Ceylon Mysore were bought in at 6s., medium to bold pale at 4s. 6d., and small to medium pale at 3s. 6d.; three cases of tiny pale sold at 1s. 9d., and six cases of bold pale splits at 2s. 10d. per lb. For good Ceylon seed 3s. was wanted.

CHIRETTA.—The value of fair current quality is 1s. 4d. per lb.

CINNAMON OIL.—Four cases of Ceylon bark, catalogued as pure by Sage's analysis, were limited at 8s. per oz., and 10 cases of leaf oil, averaging, according to Sage's analysis, 72 per cent. phenols, were limited at 1s. per oz. A further lot of 22 cases leaf (without test) were limited at 10d. per oz.

COCA-LEAVES.—A lot of 53 bales good green Java powdered was bought in at 2s. 6d. per lb.

COLOCYNTH.—Four cases of small to bold dullish apple sold at the lower rate of 1s. per lb.

CONDURANGO.—A lot of 40 bags was limited at the easier rate of 8d. per lb.

DRAGON'S-BLOOD is steady, two cases of fair bright part re-boiled mixed with dull selling at 15l. per cwt.

EGG-YOLK POWDER.—Three cases sold without reserve at 1s. 5d. per lb.

ERGOT is still firmly held; a lot of 32 bags Spanish offered and 4 bags of water-damaged sold at 7s. 1d., the price of slightly wormy of which the bulk consisted, not transpiring.

EUCALYPTUS OIL.—A single case analysing 38 per cent. eucalyptol sold at 1s. 2d. Privately the market is extremely quiet, with sellers of 70 to 75 per cent. test at 3s. 6d. on the spot, and for globulus 4s. is wanted. For 53 cases of 70 per cent. cineol 3s. was wanted in auction.

GAMBOGE is from 1l. to 2l. cheaper, two cases of good Siam pipe slightly blocky selling at 38l. per cwt.

GUM ARABIC.—A parcel of 100 bags of fair, part slightly woody Ghatti, was limited at 75s., at which private sales have been made.

HONEY.—A total of 1,854 packages offered, but only a small portion sold at a decline of from 20s. to 30s. per cwt.; of Californian, 110 cases sold at 100s. for pale set of good flavour; and 60 cases Japanese were disposed of at 100s. for pale set and setting. There were buyers of good pale set Cuban at 100s., but 112s. was asked for the best lots; five cases fair brown liquid St. Lucia sold at 110s. Privately the market is unsettled, and recent arrivals of Australian have been pressed for sale at from 92s. 6d. to 100s. in large lots. To arrive, first grade South Australian in tins in cases is offered at 22s. per cwt. c.i.f. U.K. ports. Cuban has been selling at a decline of about 20s., including good set at from 105s. to 110s., as to colour.

IPECACUANHA.—Since the last auction East Indian (Johore) has been selling more freely, while we note that the deliveries of Matto Grosso during January were 66 packages. The stocks at the end of January 1919 were 435 Matto Grosso, 3 Minas, 18 Cartagena, and 92 East Indian. In auction the demand was extremely small, and prices, if anything, the turn easier, four bales of ordinary dull, part slightly mouldy, Matto Grosso selling at 9s. 6d. to 9s. 9d.; good stout was obtainable at 10s.

MYRRH sold at slightly easier rates, three bags of small darkish part blocky Somali sorts realising 16l. 10s. per cwt.

ORRIS.—A lot of 26 bags of fair Morocco were bought in at 105s. per cwt.

PEPPERMINT OIL.—A lot of 12 Wrs. offered with a printed analysis in full by Salomon & Seaber, who declared, "We are of opinion that this is a sample of genuine English peppermint oil, free from adulterants." The oil was also catalogued as "distilled from English plants." Mr. Lescher, however, in the interests of the trade, asked if the oil was English, but the broker could give no assurance on that point, relying on the printed statement in the catalogue. Apparently it looks like an attempt to pass off an oil distilled on the Continent (probably in France or Italy) from English plants as genuine English oil, and buyers should be on their guard, as such an oil is offered at a much lower price than what genuine English peppermint oil is obtainable at. No bid was made for the parcel in question.

RHUBARB.—The London stocks at the end of January had diminished to 477 packages, compared with 818 in January 1918, this being the lowest stock recorded for at least the past six years. The deliveries in January were 56 packages. No flat or round rough High-dried is now available, the only available few cases of the latter having been sold at over 2s. last week; sales of round Shensi have been made at 3s. 3d. and bold Canton at 2s. 9d. In the drug auction 15 cases out of 17 were withdrawn without mention of price; for two cases small to medium round Canton with three-quarters pinky fracture 2s. 9d. was wanted, and 20 bags Chinese Rhapontica were limited at 10½d.

SARSAPARILLA met with practically no demand, large quantities of grey Jamaica being bought in at from 3s. 6d. to 3s. 8d. per lb., and for part mouldy six bales sold at 2s. 9d. A large quantity of red native was also offered, of which six bales sold at 1s. 6d. for dull red mixed.

SENA.—Timnevely was quiet but steady; nine bales of good bold clean green leaf sold at 7½d., and sea-damaged at from 6½d. to 7d. Small to medium was limited at 5½d. to 6d., and common small to medium yellowish 4½d. to 4½d. Ten bales sound pods sold at 4½d. Alexandrian pods were held at 1s. 6d. up to 2s. 9d. for good green, 1s. 11d. for half-leaf, and 1s. 2d. for ordinary small siftings.

WAX, BEES'.—Extremely dull of sale; 32 bales good yellow Mozambique block had been sold privately, and for further lots from 9l. 10s. to 9l. 15s. was wanted. Jamaica and West Indian was obtainable in quantity at from 9l. 10s. to 10l. 10s. per cwt.

WOOD OIL.—A lot of 200 cases of Chinese was limited at 110s. per cwt.



Norwegian Cod-liver-oil.

SIR,—In your issue of January 25 (p. 51) I find some comments by "Gadus Morrhuu" on my letter of December 24 (*C. & D.*, January 11, p. 54) in which he states that my letter contains "inaccuracies." It may be recalled that in your issue of December 14 (p. 49) a statement was made dealing with the actual situation of the cod-liver-oil market and the benefits realised by Norwegians during the last year or two. I therefore thought it would be of interest to all concerned that such misstatements should be met with accurate facts, and these were what I gave you. "Gadus Morrhuu's" answers to my observations are, I think, quite outside the question, and mostly bearing on the situation as he thinks it was at the opening of the war and in 1915. I suppose that the remark that "they appear to have taken advantage of the British Government in many ways" refers to the purchases made by the British Government in competition with the Germans at the opening of the war, when the keen competition, together with the extensive purchases of the British Government, made prices exceedingly high. This is so, and only natural, especially as the British Government did not buy in the open market, but confided the purchases to a few firms as agents, and of course these agents willingly bought what they could lay hands upon at the prices they were permitted to pay. You must, however, admit that the Norwegian exporters in general are not to be blamed for these purchases, and I strongly repudiate all such insinuations. When your correspondent in order to emphasise his comments states that a large dealer recently died a millionaire it may perhaps be of interest to him to learn that we do not know of any millionaire in Bergen in the English sense of the word, and especially not in the cod-liver-oil line. But it is quite true that a young merchant in the fish industry died a short time ago leaving, it is said, a fortune of some four to five millions of kroner, and if "Gadus Morrhuu" has a special interest in this man, who unfortunately died so prematurely, he can no doubt get information about him from the English authorities, as he acted as their agent. As for the new catch now opening, I refer to my letter of December 24, and confirm the information given you. As good news concerning appliances for cod-fishing, I may tell you that according to latest telegrams from our Government the supplies of petroleum are improving, and if nothing goes wrong it is said that in the month of March there will be sufficient fuel for the fishing so that rationing can cease. If this proves to be true it will be a godsend to the fishing people, who cannot now get half the petroleum necessary, as everything is rationed.

Yours truly,

February 1, 1919.

A BERGEN EXPORTER. (47/70.)

Profits on Proprietaries.

SIR,—Referring to the observations of "Xrayser II." (*C. & D.*, February 8, p. 45) on my attitude towards proprietaries, I am afraid that the necessarily condensed report of my paper may not have conveyed my true meaning to your readers; also, I find that an error has crept in, which, though of little importance in itself, might be misleading—I refer to the line "50 per cent. to 100 per cent. on articles of a perishable nature" (*C. & D.*, February 1, p. 56). This should read "50 per cent. to 60 per cent." With regard to "Xrayser II.'s" statement that it has never yet been decided what a proper return is, I may say that I endeavoured in my paper to show what may be considered a proper return, and that is—"one which will cover the cost of working expenses and pay the proprietor a proper salary. By a proper salary I stated that I meant one not less than that required by a qualified *locum*, which, according to recent advertisements, is 6*l.* per week, or, roughly, 300*l.* per annum. I took as the basis for my calculations an average business with a turnover of 1,000*l.* I think it is generally agreed that in the majority of such businesses the working expenses would amount to something between 15 per cent. and 20 per cent. of the turnover; then working expenses, *plus* the proprietor's salary, would equal 45 per cent. to 50 per cent. of the turnover. It is evident that a business of this size that is not showing a gross profit of 50 per cent. is not giving a proper return. I take the higher figure because some allowance should be made for interest on capital, also for contingencies. The profit I suggested on the majority of advertised articles, such as pills, tablets, cough-cures, etc., was 33½ per cent. (these at present vary from about 8 per

cent. to 20 per cent.), and profits on other items of our business ranging from 50 per cent. to 75 per cent. The average of these would be something like 50 per cent., which would be a proper return. If "Xrayser II." agrees with these figures, he must see that articles bearing 8 per cent. to 20 per cent. are not bread-and-butter, and far from being heroic, my suggestion to boycott them is not only businesslike, but good common sense, and quite in accordance with his own statement that "there are, indeed, a few proprietors with whom we can afford to quarrel, for they do not allow us even bread-and-butter." To quote again from his observations: "Firmness and union are all very well, but he forgets that the vast bulk of these articles can be sold by anybody who chooses." If he will refer to the report again he will see that I have not overlooked this fact, because I distinctly said, "It may be argued that if we refuse to sell unprofitable articles, someone else will." Now, there is nothing to prevent other traders than pharmacists selling Elliman's Embrocation, but no objection was raised by the trade on that score when we were asked to combine in that case, so there is nothing to prevent us doing the same in regard to other things, and the time to do that is now. The matter might be handled by the Proprietary Articles Trade Association in conjunction with the local Associations; and if it was managed properly, as I feel confident it would be, we should soon reap the benefit by compelling manufacturers to place their goods on the protected list and give us a proper profit. Present-day cost of living and increased general expenses make this question one of paramount importance to the drug-trade.

Yours faithfully,

LANCASTER.

R. T. SIMPSON.

Demobilisation.

SIR,—A great number of pharmacists and their assistants joined the Army under Lord Derby's recruiting scheme, and it is necessary for the "Derby man" to carefully watch the Army of Occupation. The Army of Occupation is to be composed of men who enlisted on and after January 1, 1916, but Army Order No. 14 of January 29, 1919, fails to substantiate this, inasmuch as under the Lord Derby scheme men who enlisted in 1915 and were called to the Colours for continuous service in 1916 and later are not classified as 1915 men, but classed according to the year of their mobilisation. This means that only the groups called up in 1915 are eligible for demobilisation, and the groups called up at that time consisted of single men of eighteen, nineteen, twenty, and twenty-one. The older men, single and married, who joined the Colours in 1916 and later, according to their exemptions, are being retained in the Service, which seems unjust and undesirable from the older man's point of view, because all "Derby" men signed for one day's service with the Colours and were transferred to the Reserve until mobilised, and further, each man received one day's pay (1*s.*) and ration allowance (1*s.* 9*d.*), and was liable to be mobilised at fourteen days' notice. Every "Derby" man signed an attestation form to this effect, which states that if employed in a hospital he may be retained after the termination of hostilities until his services can be spared, but in no case shall this retention exceed six months. If the "Derby" man is to be retained for a year in the Army of Occupation, the "signed contract" is being broken by the Government, for hostilities terminated November 11, 1918, and the six months' period terminates May 10, 1919. I suggest that the Chemists' Defence Association be asked to deal with this question, so far as it affects pharmacists and their assistants. There is also another point at issue—that is, the question of category men. "Derby" volunteers are mostly lower in category than in the 1914-15 Army, and the Army of Occupation should be composed of absolutely fit men ready to meet any emergency.

Yours truly,

FAIR PLAY. (12/2.)

The Question of the Unqualified Assistant.

SIR,—As there has been considerable controversy as to the status of the competent unqualified assistant, I think it would be a good thing if we had the opinions of more, both unqualified and qualified. We must, of course, jealously guard our own rights and privileges, but at the same time we must not forget, for humanity's sake as well as our own, that our competent unqualified assistants' interests are inevitably linked up with ours, and in bettering our own position let us not forget our fellow-workers, who in most cases cannot perhaps do as much for themselves as the qualified can. If some scheme were evolved whereby assistants who served, say, ten years, under qualified men (war service to be included as such), and could furnish evidence to that effect, were registered by the Pharmaceutical Society as, say, Fellows upon payment of subscription, I think we would be on the way to placing things on an organised basis. It would also bring considerable funds to the Society, safe-

guarding masters, helping the men concerned, and keeping off poachers. Some better pen than mine might perhaps take the matter up along these lines and earn the good will of all.

Yours, etc.,

M. P. S. (51/18.)

SIR,—With reference to the remarks of "Xrayser II." under "Observations and Reflections" (*C. & D.*, February 8, p. 45) respecting a conference between representatives of the Pharmaceutical Society, the Association of Certified Dispensers, and the Privy Council, with a view of drafting a by-law so that a person can be registered without examination, I beg to state that I have had an all-round practical experience of the trade from A to Z, and have charge of a large department in the wholesale, having passed through my hands thousands of gallons of poisons during the year. I have handled large quantities of dry goods, alkaloids, etc., having spent thirty years in the trade. I have quite a unique experience as a dispenser to various doctors in London during evening surgery, with remarkable success—so much so, that I have even taken the doctor's place and seen patients myself; in many cases patients have preferred me to act for them rather than see the doctor. In some places where I have acted as *locum* medical men have actually asked me what I would give for certain cases. I have never been able to qualify, through no fault of my own. The irony of the whole thing is that I am debarred from going into business on my own account because I am not allowed to deal in poisons, such as making up a panel script or selling a pennyworth of paregoric. Fortunately, I have the means at my disposal to make a start for myself, but cannot do so for reasons as above. I should like to ask Mr. Glyn-Jones if he would give me his opinions on the subject. I am also a member of the new Drug Union (Wholesale). I think this is a golden opportunity for Mr. E. N. Lloyd, the Secretary, to give his views in a case such as this. I am sure that there are many who would only be too pleased to pay the Society five or ten guineas as a registration-fee to enable them to earn a decent living.—Yours faithfully,

RHEL. (53/45.)

SIR,—Having read with much interest the letters that have been recently appearing in the *C. & D.* regarding pharmaceutical education and examination, I give my own experience in the hope that it may prove helpful and encouraging to those wishing to qualify as pharmacists, but who for financial reasons are unable to attend a college of pharmacy. I was thirty-five years of age, and a married man, when I passed the Minor examination at my first attempt, and did not attend a college of pharmacy but took the examination straight from business, being at work behind the counter until the evening before the first day's work of the Minor. The whole of the expenses incurred in passing the examination, including fee, books, apparatus, hotel expenses, etc., was covered by 20*l.* As I am earning 5*l.* weekly now instead of 3*5s.* to 50*s.* weekly as an unqualified assistant, the qualification has proved a financial success to me, without considering the "moral" satisfaction one feels after qualifying. I am convinced so many men fail to pass their examination because they go up unprepared, and trusting to "luck" to some extent. I spent all my spare time for four years in thoroughly preparing for the exam., and had no difficulty in passing; in fact, I was complimented by three of the examiners on my work, and believe I succeeded in obtaining very good marks, as the President congratulated me on passing a "very good examination." I may add that during the greater part of the four years I was suffering from serious chest trouble, which necessitated constant medical attention. If a man goes up to "the Square" knowing his work, as he should, I am sure that in the great majority of cases he has little difficulty in satisfying the examiners. Provided a man is prepared to work earnestly, I believe that attendance at a school of pharmacy, while desirable where finances permit, is by no means essential to success in the examination-room.

Yours faithfully,

PHTHISIS. (41/18.)

SIR,—In last week's *C. & D.* (February 8) I read a paragraph by "Xrayser II." with the title "A Rumour Reaches Mo." I advise every pharmacist to read this and to think it over carefully, as if this is correct I should think it is about time every pharmacist and Association in this country were up in arms against such an underhanded bit of work. If the Minor certificate is worth having, let them work for it the same as others have done; the Pharmaceutical Society have made it easy enough now by dividing the examination. But to let loose a lot of half-trained dispensers with the privileges of the pharmacist seems beyond all reason to me and a good many more. I cannot think that the Pharmaceutical Council can even consider the idea of selling these privileges for cash. Why is not

such a serious step as this put to the vote of every available pharmacist in the country, for whom the Council profess to be working, and whose position they say they are trying to improve. I say "half-trained dispensers," advisedly, because the majority of them have never had any retail experience, and I have been through the Hall examination myself.

Yours truly,

M. P. S. (54/17.)

Miscellaneous Inquiries.

C. A. S. (47/73).—(1) CONCENTRATED LIME SULPHUR TREE-SPRAY:

Flowers of sulphur	...	...	3 lb.
Fresh lime	...	...	3 lb.
Water	...	...	6 gals.

Boil until reduced to 2 gals.

For use, dilute with 100 parts of water.

(2) We are not acquainted with any book dealing with the manufacture of tooth-soap, but the machinery is probably the same as is employed for making tablets of toilet-soap.

Tara (46/72).—(1) LUCAS'S "PRACTICAL PHARMACY."—The second edition of this work, published in 1908, is the last. (2) We can find no references to the effect of shellac when taken internally in the form of "finish." We should not expect it to be digested, but the mechanical effects on the mucous membranes may be considerable.

Teco (8/10).—OINTMENT FOR SKIN-DISEASES IN DOGS.—This appears to consist of liq. picis carbonis and lard. The fat was entirely saponified by alcoholic potash. Metals, sulphur, boric acid, phenols, salicylates, alkaloids, etc., were sought for with negative result. The quallaia was indicated by the froth produced on shaking the spirituous extract with water.

H. H. (198/17).—CURE-ALL FOR RABBITS.—The sample yields about three-fourths its weight of ash; on heating it gives a good sublimate of sulphur. The greater part is soluble in water, forming an acid solution; the solution indicates potassium and sulphate as the chief constituents, and a heavy trace of iron oxide also occurs. A little vegetable powder is present, which appears to be foliaceous, possibly senna. A mixture of pot. sulph., pulv. sennæ, sulph. sublim., with a little ferric oxide, would give a powder of approximately the same composition.

J. P. W. (29/31).—SCURF-OINTMENT.—The sample is pale green in colour (probably due to ol. viride), smells of camphor, and contains a considerable quantity of boric acid. The base has a saponification value of about 179.7, and includes wax as an unsaponifiable portion. It shows no metals and no alkaloids by Mayer's reagent. No phenols, salicylates, etc., were indicated on testing the aqueous extract with ferric chloride. The composition is thus approximately as follows:

Boric acid	...	...	10 per cent.
Camphor	...	...	2½ "
White wax	...	...	10 "
Lard	...	...	77½ "
Green oil	...	...	q.s.

Mix.

Tint (44/67).—We cannot say without experiment what is the best permanent tint for waterglass. Cudbear is a likely colouring agent, but may not stand the alkalinity of the waterglass.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Feb. 15, 1869.

Michael Faraday.

Among the few notes which Michael Faraday made of his own life are the following:

"During my apprenticeship I had the good fortune, through the kindness of Mr. Dance, who was a customer of my master's shop, and also a member of the Royal Institution, to hear four of the last lectures of Sir H. Davy in that locality [he always sat in the gallery over the clock]. The dates of these lectures were February 29, March 14, April 8 and 10, 1812. Of these I made notes, and then wrote out the lectures in a fuller form, interspersing them with such drawings as I could make. The desire to be engaged in scientific occupation, even though of the lowest kind, induced me, whilst an apprentice, to write, in my ignorance of the world and simplicity of my mind, to Sir Joseph Banks, the President of the Royal Society. Naturally enough, 'No answer' was the reply left with the porter."

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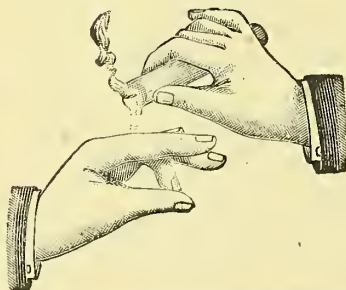
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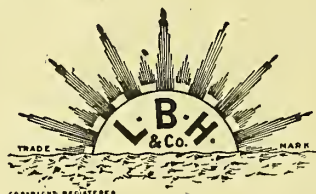
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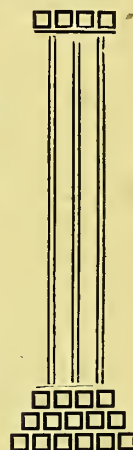
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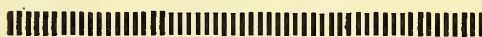
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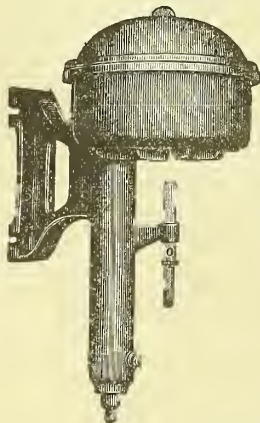
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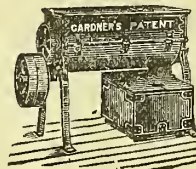
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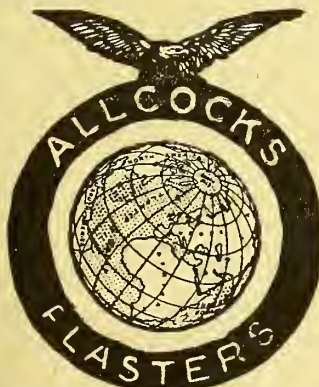
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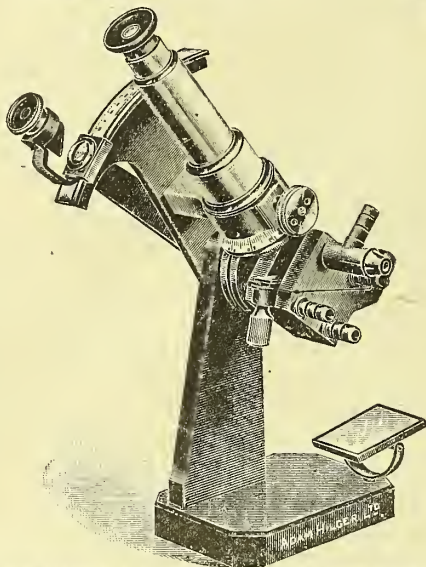
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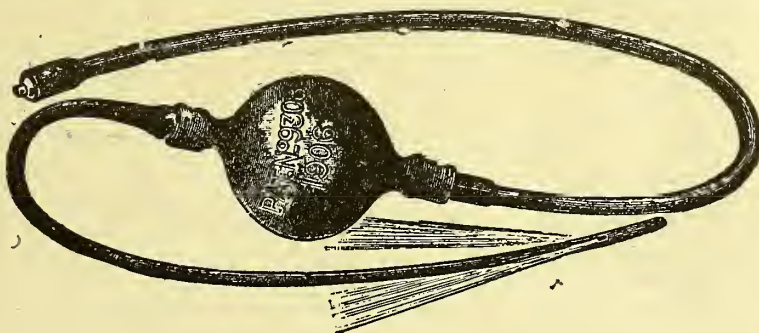
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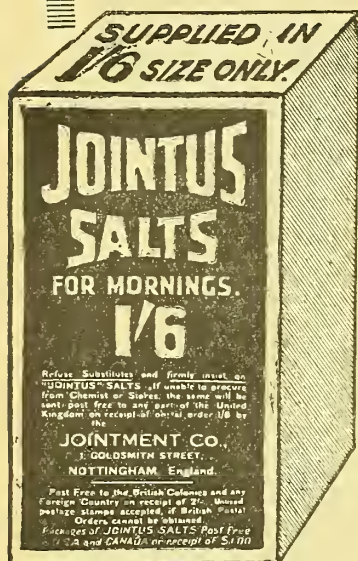
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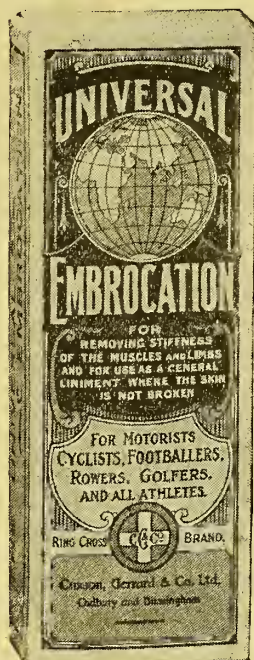
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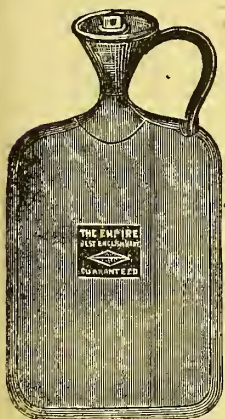
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Heavy weight	each	4 0	4 4	4 8	5 0	5 6	6 0	6 3	7 0
Light " " " " " "	"	3 10	4 2	4 6	4 9	5 3	5 9	6 0	6 6
Covers, scarlet or grey plush	"	1 4	1 6	1 9	1 0	2 0	2 6	2 8	3 0

Fig. 957.—Side Handle.

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**CASH
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**1 GROSS or
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**DRAWS PAIN FROM
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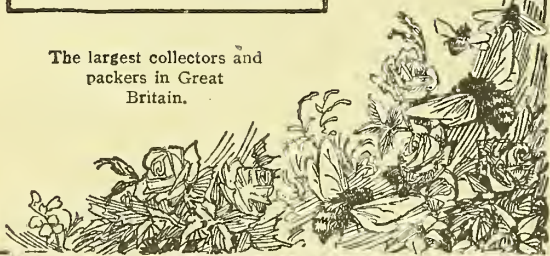
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The Drink for the Masses

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A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

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"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

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Purely Barley, and
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for use with 'C' or 'D' Syphons

Price 33/- per doz. boxes
to retail @ 3/6 each.

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Empty 'D' bulbs should be returned for refilling.
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For FOOD PURPOSES,
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PERFECT PURITY.
Highest Colour Value.

EARLY DELIVERY (in limited quan-
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THE BRITISH APERIENT.

Removes depression and gives renewed vitality
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A safe and mild aperient for prolonged use.

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HEALTH THAT COMES WITH A PURIFIED SYSTEM.

TESTED AND PROVED FOR OVER A QUARTER OF A CENTURY.

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GOOD PROFITS. PROTECTED BY P.A.T.A.

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"PENNY" PACKETS (12 in box)	1/6	1/3	10/6
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	Each.	Each.	Per doz.
Boxes, about 1½ lb. ...	4d.	4d.	3/4
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" " 7 " ...	1/2	1/2	11/6
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Four 7-lb. Boxes CARRIAGE PAID for 4/-

Six 7-lb. Boxes CARRIAGE PAID at 11/6 per doz.

Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

No stock to hold	Each.	Each.	Each.
Bags of 28 lb. ...	3/6	3/6	3/-
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2½% Discount for Cash on all orders of 20/- and upwards.
Packing Cases extra and returnable. Half value allowed if not returned.

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WHITE OILS

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Sales run into millions annually.

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12d. Boxes Kolene	12/- gross
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1 oz. Pots	48/- " "
2 " "	72/- " "
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These prices are strictly net.

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A high-grade Toilet Soap of marked Antiseptic properties. Non-irritating. Agreeably perfumed. Lathers in hard water. Assists the complexion. Heals cuts & abrasions. Invaluable in the Nursery

TOILET SOAP in 3-tablet boxes.

SHAVING STICKS, each in a carton, packed half-dozen in a display case, with protecting sheath.

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(Proprietor: GUY E. DRUIFF)

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APOLLO

Made by the Largest Liquorice Manufacturers in the World. Is the concentrated extract of the richest root. Contains no added substance whatever. It is very soluble, smooth to the tongue, and entirely free from grit. It is made where the root grows, under supervision of British staff. Is not a sweetmeat but a high-class Pharmaceutical article.

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The makers of "APOLLO" Stick Juice, who are also makers of the old-established brands of "V.B." and "B.X." Block Juices, much regret the stoppage of their shipments due to the War. They are, however, glad to assure their buyers that large stocks of Liquorice Root have been accumulated in the interval, so that manufacture will proceed rapidly as soon as hostilities cease.

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"SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

The Lancet' says: 'Of Standard Purity'

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Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.

NOW THAT **LICORICE JUICE** IS SO DEAR

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CHEAP AND WHOLESOME

IN 10-lb. BLOCKS, AND STICKS OF ALL SIZES.

FINEST **BLACKS** AND
COLOURS
(ALL SHADES)

**CARAMEL
COLOUR**
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Guaranteed  
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50

times the concentration
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Sample on application.

Soluble in

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IN FACT—ANYTHING.

BLACK FOR INK.

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A combined Stain and
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LONDON, S.E.—Cash Retail and Dispensing Business; established many years; returns about £1,150 at fair prices; there is an appointment attached; rent £46; held on lease; stock fixtures valued at £550; price £675.

LONDON, S.W.—Residential locality; old-established Business held by vendor many years, now retiring; returns, about £1,000 at good prices; well-fitted shop and comfortable residence; to be agreed.

LONDON, N.W. (Residential Suburb).—Well-established Business; held by vendor upwards of 25 years; returns, present over £30 per week at fair prices; well-appointed shop, fitted with every modern appliance; there is a comfortable residence; held on lease; no opposition; price £850.

KING'S CROSS (Within Easy Distance of).—Old-established Business in good position in populous district; the net income is £1,000; and under energetic management can be increased; good residence; rent £600; price £600.

8.—MIDLANDS.—Ready-money Business; established many years; returns show a steady increase, last year's turnover being £2,484; gross profit £827, net £649; corner shop, fairly well fitted and fully stocked; small residence; rent £40; no opposition; price £750, or valuation of stock and fixtures and £30 for goodwill.

9.—HOME COUNTY.—Modern Pharmacy, chiefly ready money, situate in centre of good market town; returns average between £3,000 and £4,000; well-appointed shop and good residence; terms to be agreed equitably.

10.—WESTERN COUNTY (Health Resort).—Good-class Business for disposal through death; returns between £1,200 and £1,500, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale, less than the value of stock and fixtures will be accepted.

11.—WESTERN COUNTY.—For immediate disposal, good-class Family Retail and Dispensing Business, with Photographic branch; the concern has been established upwards of 60 years, and held by vendor 43, now retiring; returns last year £1,764; gross profit £541; roomy house; price about £1,000, or valuation terms would be considered.

12.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; net profit £900; turnover might be materially extended under qualified management; price £2,500.

13.—L. & N.W. (Main Line).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

14.—SOUTH MIDLANDS.—Good-class Business for disposal through death; established upwards of 100 years; returns over £1,500; net profit £300; no opposition; price £1,000.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of the Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

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AGENCIES.

ITALIAN AGENCY.—Advertiser, having large connection and experience throughout Australia, and resident agent of important English Company, would be glad, before returning, to receive proposals for an additional Agency, preferably a strong line; exceptional knowledge of advertising and follow-up; stock held in all capitals. Reply to 281/22, Office Paper.

Belgian Chemist of Antwerp desires sole Agency in Belgium for well-known English or American Patent Medicines, with cash; references from two London firms. Address 275/30, Office of this Paper.

Belgian Druggist and Herb Exporter, owner of warehouses, for herbs and horses, desires to come to agreement with English and Chemical Manufacturers to represent them in Antwerp on commission, with or without dépôt. Address 211/20, Office of this Paper.

COE, BORDEAUX, AND SOUTH-WEST.—Representation of food firms wanted by French Chemist; commission basis. Address 301 Cours Balguerie, Bordeaux.

AND.—Advertiser, who has had over 15 years' experience in Wholesale Pharmacy, and has a sound connection among chemists and exporters of Drugs, Chemicals, and allied products, and is open to take up a few Agencies for well-known firms; highest trade and financial references. Address 211/20, Office of this Paper.

JACK & CO., an established firm, are open to represent manufacturers of Proprietary and Pharmaceutical products in India, Burma, and Ceylon; references, the National India, Ltd., Bombay; head office, Victoria Building, Fort, Calcutta.

MANUFACTURERS' Agents, with Offices in London and on the Continent, wide connection, and Representatives and Travellers in France, Italy, Belgium, Holland, etc., is open to take up one or two firms (manufacturers only) not represented on the Continent; banker's and other references supplied. Apply "E. B." (276/40), Office of this Paper.

PROFITABLE side lines offered to Representatives already calling on Chemists and Retail Drapers. State ground covered and commission expected to 48/140, Office of this Paper.

REPRESENTATIVE, 34 (ex-Service), calling on Chemists, seeks a salaried appointment or commission agency; Northern Counties covered; ten years with last firm (Drugs); irreproachable record and references. G. W. Crowther, 3 Ashburton Road, Wallasey, Cheshire.

WANTED, Agencies on commission for the Midlands by Birmingham gentleman, in Drugs, Toilet requisites, etc., calling on Chemists, Hairdressers, and Stores. Apply 5/20, Office of this Paper.

TO LET.

CHEMIST'S Shop and Parlour to be let; prominent corner position, facing public baths; old-established; low rent; dwelling-rooms if required. Apply 13 Prince of Wales Road, Kentish Town, or to G. M. Gates, 15 Walbrook, E.C. 4.

SHOP with basement; unique for Chemist; best position in Nelson (50,000 population), Lancashire, opposite tram terminus; trams radiate from this point through population of 250,000. Apply Watson, Landless & Pearce, 2-4 Nicholas Street, Burnley.

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£5,745 RETURNS. NORTH MIDLANDS.—Middle-class Retail, Prescribing, etc.; net profit £2,219; proved by books kept; price £4,650, or one year's net profit as goodwill, and stock and fixtures at valuation.

£2,000 RETURNS. MIDLANDS (Death Vacancy).—Good-class Light Family Retail; no heavy trade or N.H.I.; very heavily stocked; all stock in good condition; valuation of stock and fixtures.

£940 RETURNS. LINCOLNSHIRE.—Light Cash Retail; Manager over 70 years old; valuation of stock and fixtures, about £400.

£1,060 RETURNS. 40 MILES OF LONDON.—Light Retail and Dispensing; steadily increasing; nice house; price £750.

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NO CHARGE TO PURCHASERS.

1.—ESSEX COAST.—Select Retail Dispensing and Photographic Business in best position; returns last year £1,370; net profit £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

2.—HOME COUNTY.—Good-class Retail and Dispensing Business; ill-health sole cause of sale; returns £1,060; net profit £428; good house and garden; modern well-stocked Pharmacy; price £750.

3.—WEST OF ENGLAND.—Good-class Retail and Dispensing; returns £2,000; practically all cash trade; good profits; large handsome Pharmacy, well stocked; good house, low rent; price £1,200, or small goodwill and valuation.

4.—SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; net profit nearly £450; books well kept; very convenient house; price about £900.

5.—MIDLANDS.—Well-established Wholesale and Retail Business for sale through ill-health; returns average £6,500; plenty of scope; low rent; on lease; books audited, and every investigation courted; price £5,500 or near offer.

6.—KENSINGTON (Death Vacancy).—Good-class Dispensing and Light Retail; under management; returns about £700; was doing £1,250, and can again; well-fitted Pharmacy and good stock; price for quick sale £450, or near cash offer; worth attention.

7.—LONDON (Western Suburb).—Light Retail Dispensing and Photographic Business; returns over £1,350; net profit, about £500; large handsomely fitted shop, fully stocked; price £800, or £100 and valuation; trial can be had.

8.—LONDON (Essex Suburb).—Profitable light middle-class Cash Retail; practically unopposed; returns over £1,000; net profit £436; books properly kept; well fitted and fully stocked; price £650.

9.—LONDON, S.E.—Light Cash Retail, under Manager; returns £520; profits half; plenty of scope; lock-up shop; low rent; price £175.

BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £5,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

LINCOLNSHIRE.—Unopposed Mixed country Retail, with Grocery; returns £2,500 at good prices; house and shop, rent £50; price, fixtures and fittings, £200; stock at valuation, about £400; an excellent opportunity for unqualified man. Apply 1/20, Office of this Paper.

LIVERPOOL (NEAR).—Exceptional opportunity; smart up-to-date Business; turnover, at very good prices, over £50 per week; net profits unusually good, rapidly increasing; few patents, mostly own specialties; very little N.H.I.; price for quick sale, £1,200. Particulars 3/35, Office of this Paper.

LONDON, S.E.—For disposal, on account of illness, small genuine Cash Business; medium-class neighbourhood; returns last year £710; Insurance scripts 3,000; rent £40; new lease, 14 years; no opposition; valuation £175; price £125. Apply "Y." (3/40), Office of this Paper.

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BUSINESSES FOR DISPOSAL (continued)

LONDON, W.—Sound, old-established Business; well-populated mainly working-class neighbourhood; neglected to last since steadily increasing; last year's returns £800, last year £727; energetic and up-to-date man can greatly increase N.H.I. 300 monthly; good stock; small export trade under consideration; Optical and Dental connections now dormant; convenient house can be let off; for quick sale will accept lowest; easy terms may be arranged. Apply 3/25, Office of this Paper.

LONDON, W. 8.—For immediate disposal, owing to ill-health proprietor, Family and Retail Dispensing Business; £1,500, increasing; 2,000 new prescriptions last year (N.H.I.); well fitted and stocked; one lady Assistant only lease; nice house attached; valuation about £950; part remain; every investigation allowed. "Sodii" (2/35), Office of this Paper.

NORTH-EAST COAST.—Light Retail and Dispensing Business; very little N.H.I.; main road; plenty of scope; books properly kept; well fitted and stocked; convenient residence attached; returns £1,700, increasing; satisfactory reason for disposal; valuation of stock and fixtures, about £900. Apply "A." (275/31), Office of this Paper.

SOUTH-WEST COAST.—Light Retail and Prescribing; profitable Business; returns £12 per week, besides element which pays £2; no N.H.I.; good position; convenient attached; beautiful neighbourhood near sea; will do £1 year; price £275, or near offer; genuine reasons for bargain. Write 4/33, Office of this Paper.

SOUTH YORKS.—For immediate disposal at valuation profitable Retail Business on main road of large city; returns £1,700; good fittings; lock-up shop; double-fronted position; many years in present hands; easily and cheaply Apply 275/32, Office of this Paper.

ORKS (WEST RIDING).—Excellent corner position in busy main thoroughfare of large industrial city; for immediate sale, a good Mixed Business; all cash, no credit; several good utilities; also property for sale if desired; owner retiring to advanced age; price £2,300; banker's reference will state business. Apply 4/20, Office of this Paper.

SPLENDID Prescribing business for sale in a busy Manufacturing North-West Lancashire town; rent low; easily sold; well fitted and stocked; young couple could live on it; used now as a lock-up shop; opening for Optics or stery; takings over £1,000 annually; price £550 cash; no s; principals only; all books open to investigation; good for disposal. Apply "Successful" (278/8), Office of this Paper.

Business for sale; value stock and fixtures £175; only expense, rent 12s. 6d. weekly; 21 years' lease; cash weekly N.H.I. monthly £8; no repairs; splendid fittings; sound for disposal; value square. Apply 236/25, Office of this Paper.

Business for disposal; established 25 years; returns over £1,000; owner giving up owing to ill-health; double-fronted in excellent main road position; thoroughly genuine con-open to every investigation; could be considerably increased energetic man. Stow-Morris, Chemist, 16 Rushey Green, Cat-S.E. Write private address, "Killarney," 57 Bromley Catford, S.E.

Excellent chance for a young man with workable knowledge of Dentistry and Optics to acquire a Light Retail and Dispensing Business on very easy terms; modern premises; private use; single man could let off half rent; part cash, rest by instalments; first-class opening for an energetic man. 3/26, Office of this Paper.

Best Offer.—Large town in Scotland; going concern; returns £800; small Optical connection; splendid opportunity for anyone with small capital; owner going into larger s in the country; offered for quick sale at pre-war price. Apply 2/6, Office of this Paper.

For sale, established Chemist's and Druggist's Business in growing neighbourhood, within 20 miles of London; no opposition opening for energetic man. Apply Merrimans, Solicitors, Mitre Court, Temple, E.C. 4.

For disposal, old-established Drug Business in small manufacturing town in Yorkshire; low rent; same hands over s; owner retiring. Apply "Drugs," Bleasdale & Co., York.

Established Retail, Prescribing, and Dispensing; also light-testing Optician's business in North of England. Apply Office of this Paper.

For sale (owner retiring), small Chemist's Business; established 74; on Panel; thriving; good prospects; country (Lancs). 1/16, Office of this Paper.

0.—MUCH neglected West London Pharmacy; has done well; market place; splendid neighbourhood; (new) more than worth the price; long lease; low rent; returns under £1 weekly; Sight-testing would do well, satisfactory; suit energetic man; premises in excellent condition. Apply 2/25, Office of this Paper.

For thriving Drug Store in populous working-class neighbourhood in West London suburb; good opening in Dentistry; none done near; good business for d or unregistered man; plenty Prescribing; roomy house; Apply 54/42, Office of this Paper.

FOR SALE.

Property for sale; ten miles north from city; Great Eastern; about 4,300 ft. floor space and three living rooms; water laid on, large shed, and half-acre land for extension, valuable shop frontage to main road; no restrictions; for Chemical or Food Factory; price £1,250 for quick sale. Box 1,475, Willings, 125 Strand, W.C. 2.

For sale, 4 oz. Phenazonum, 14s.; 6 oz. Ol. Santol. Flav., 24s.; 2 oz. Ol. Lavand. Extol., 16s.; 4 oz. Ol. Menth. Pip., 10s.; Valerian., 8s.; 1 oz. Barbitone, 8s.; whole or part, post only 272/18, Office of this Paper.

For sale, Oil, finest Spanish, cream quality, 10 2-gallons, 30s. on; Honey, Australian, 4 60-lb. tins, 190s. cwt. Walters, Street, Oldham.

Fittings.—Up-to-date Window Enclosures; suit double-glazed shop; front sections 4½ feet, side 2½, 7½ feet deep; glass shelves, standards; £30. Henchley, 38 George Road.

For sale; about 10 cwt. hard white block, 124° S.P.; 1 per cwt. Apply 281/25, Office of this Paper.

For sale, 10 gallons. Offers to 281/3, Office of this Paper.

For sale, CHESTERS Inf. Senegæ. Conc., i. to vii., at 4s. 6d. lb.; W. of 5 lb., carriage paid, for 23s. 3d.; cash with an Noble, Pharmacist, 17 Owens Row, London, E.C. 1.

BUSINESSES WANTED.

SCOTLAND, Coast or country; net profit about £400 or over. Photographic and Optical no objection; advertiser got profit able Cash Business in industrial town; also immediate cash at hand, but desires change; replies confidential. Apply 3/4, Office of this Paper.

SOUTHERN COUNTIES OR COAST.—M.P.S. requires a Business (neglected not objected to); profit not less than £300; advertiser has adequate capital; will treat particulars in confidence and give banker's reference; would also consider partnership; management before succession preferred, but not essential. Particulars to J. Caesar, Heron Court Hotel, Richmond, Surrey.

A THOROUGHLY genuine and progressive Business wanted, turnover not less than £2,000, on South Coast; Brighton district preferred; must bear strictest investigation; purchaser already owns business in the same district. Apply 281/2, Office of this Paper.

ADVERTISER seeks good ready-money Business or Drug Stores in or near London, with scope for increase by enterprising young man; please state turnover; neglected concern would be considered; all replies treated with strict confidence. "Genuine" (2/36), Office of this Paper.

CHEMIST'S Business wanted, Mixed Retail and Dispensing, with scope; Northern Counties. Reply to Cornish, 2 Eden Place, Sunderland.

GOOD-CLASS Cash Retail; £3,000-£5,000 turnover; suitable for partnership; one where owner wishes to retire and would give good introduction preferred; £1,500 cash ready; northern town preferred, but good country business not objected to; scope for Optics and Photographic trade. Apply 267/11, Office of this Paper.

WANTED, a Cash Drug Store; must be a going concern, with a little Photographic trade preferred, but not essential; will buy same for cash. Write 2/32, Office of this Paper.

PARTNERSHIPS.

PARTNERSHIP wanted in sound business; with or without opportunity for X-Ray work, etc.; or in Wholesale, Manufacturing or Sundries, or where services of experienced Chemist could be utilised; capital £500 to £1,000. Apply 271/5, Office of this Paper.

"A CHANCE IN A LIFETIME."

PROPRIETOR, of good busy cash business, wishing shortly to retire, offers a young, capable, energetic, qualified man position as Manager, at good salary; the business is situated in a very desirable locality (south), has a turnover of between £3,000 and £4,000 (Retail only); proprietor proposes to draw a certain income from business, all profits over and above to be equally divided; trial required to show capabilities; references must bear strictest investigation. "Ambition" (4/23), Office of this Paper.

SITUATIONS OPEN.

RETAIL.

BECKENHAM.—Qualified Manager, about 30; good salary and prospects to energetic and up-to-date business man, accustomed to brisk trade. Apply, with full particulars, to Mrs. H. Pain, 70 Beckenham Road, Beckenham, Kent.

BRADFORD (NEAR).—Elderly qualified Assistant; easy hours; duties light; permanency. "L. M." (2/900), Office of this Paper.

BRISTOL ROYAL INFIRMARY.—Assistant Dispenser (male) required as soon as possible; must hold Pharmaceutical Society's qualification; salary £175 per annum. Apply, stating experience, etc., Rees, Pharmacist.

CITY.—Capable, experienced, qualified Manager; must be smart, energetic, and not afraid of work; short hours, half-day, no Sunday or Bank Holiday duty; progressive commission on sales; succession or part interest to suitable man entertained. Write, stating salary required, giving reference and experience, to 2/26, Office of this Paper.

CITY.—Lady Assistant wanted, with good all-round Dispensing experience; easy hours of business; a capable lady would find this a comfortable berth. Apply, with full details of experience, also stating age and salary expected, to "Cochineal" (5/7), Office of this Paper.

DARLINGTON.—Assistant required; age about 35. Apply, with full particulars, to Waters, Chemist, Darlington.

DERBYSHIRE.—A reliable qualified Assistant required; small middle-class Retail business, with N.H.I.; hours moderate; no holiday or Sunday duty. Salary and recent reference to 4/1, Office of this Paper.

LEEDS.—Qualified Manager required for suburban business; excellent opening for young man with initiative and some real ability; salary £5 per week, plus a substantial commission on profits. Full particulars to 1/37, Office of this Paper.

LEEDS.—Qualified Manager required for a business situated in residential artisan district; Leeds man preferred; liberal interest in the profits of the business offered. "Leeds" (2/9), Office of this Paper.

LIVERPOOL.—Qualified Assistant; Minor certificate; chiefly for Dispensing and the usual Dispensary work; must be neat and accurate; several Assistants employed; liberal salary to the right man; interview essential; letters only in first instance; applications not answered within three days, please consider respectfully declined. Particulars to E. Prebble, Chemist, 187 Kensington, Liverpool.

LIVERPOOL SUBURB.—Qualified Manager required for Dispensing and Light Retail branch; married; live on premises (modern house); must be reliable and energetic. State particulars, salary, etc., A. Shaw, 43 Green Lane, Stoneycroft, Liverpool.

LONDON.—Wanted, qualified Assistant to manage branch; must be smart, active, and energetic; permanency to suitable man; good salary. Apply, with full particulars, age, experience, etc., to 54/71, Office of this Paper.

LONDON.—Wanted, qualified Assistant with London experience; quick, active, and reliable; good Salesman and Dispenser; up to date, with knowledge of Photography; abstainer. Address 3/27, Office of this Paper.

LONDON (CITY).—Wanted, Junior Assistant; unqualified; outdoors; easy hours. Apply, with full particulars as to experience, when disengaged, salary expected, and references, to Pollock & Co., 133 Fenchurch Street, E.C. 3.

LONDON, E.—Elderly qualified Chemist required for Dispensing and Light Counter work; state age and salary required; permanency. "T. S." (2/90), Office of this Paper.

LONDON, N.W.—Wanted, good Junior Assistant (unqualified, male), chiefly for Dispensing Counter. W. R. Ames, 142 High Street, St. John's Wood, N.W. 8.

LONDON, N.W.—Part-time Assistant wanted in good-class business; a gentleman with at least half the day disengaged. State full particulars, "Roche" (4/31), Office of this Paper.

LONDON, S.W.—Wanted (shortly), competent experienced Assistant for general middle-class business; must be good Counterman and reliable Dispenser. Apply personally, or write full particulars, to W. F. Enness, Pharmacist, 91 High Street, Wandsworth, S.W. 18.

LONDON, S.W.—Elderly qualified Chemist; permanency; short hours; light work; good references. 18 Wilton Road, Victoria Station.

LONDON, S.W.—J. B. Barnes & Son, 205 Knightsbridge, require a qualified Assistant; must be a quick and accurate Dispenser. Full particulars of age, experience, and salary required to W. Hill.

LONDON, W.—Wanted (about March 10th), Junior Assistant with good Dispensing experience; outdoors. Apply, stating full particulars and salary required, to J. G. Gould, 23 North Audley Street.

LONDON, W.—Competent Assistant (about February 24th), outdoors, to take charge of Dispensing Counter in high-class Dispensing business; must have had good experience, and with a knowledge of Photography preferred. Please state age, height, experience, and salary to H. Dixon, 1 Russell Gardens, Holland Road, Kensington, W. 14.

MALVERN.—Assistant; accustomed to good-class Retail and Dispensing; no N.H.I. Please state usual particulars, salary required (outdoors), etc., to Alfred Mander, The Belle Vue Pharmacy, Malvern.

MIDLANDS, NEAR BIRMINGHAM.—Qualified Manager, married, required for very progressive quick cash and N.H.I. business; liberal interest in the profits offered to the right man. "B. H." (2/902), Office of this Paper.

SHEFFIELD.—Qualified Manager for busy shop in nice locality; great scope for suitable gentleman to increase a business much neglected; usual half-holiday. Applicants please state salary, etc., to the Staniforth Pharmacy, 407 Staniforth Road.

SURREY.—Qualified Assistant required (at once) for good-class business; must be gentlemanly and capable; good prospects offered to conscientious worker. Apply, giving usual particulars, to 4/5, Office of this Paper.

TORQUAY.—Assistant (either sex) required for high-class Dispensing and Family business. Apply, with full particulars, to C. Sloman, Torre Pharmacy, Torquay.

WESTCLIFF-ON-SEA.—Unqualified Junior wanted for Dispensing and brisk Counter business; outdoors. Apply, stating salary and experience, to F. H. King, 178 Hamlet Court Road.

WORKING.—Required (at once), a capable Assistant for Dispensing in good-class business; demobilised man preferred. Apply, stating full particulars, to A. Lloyd Davies, Chemist, Working.

ASSISTANT (gentleman or lady) required for good-class Pharmacy; quick and capable Dispenser. Give full particulars, age, experience, and salary desired to E. L. Slade, Pharmacist, 3 Station Parade, Kew Gardens.

ASSISTANT wanted (immediately), qualified or unqualified, for Manchester district; used to N.H.I. Dispensing. State all particulars to "Clinicals," c/o John Quilliam & Co., Ltd., Victoria Bridge, Manchester.

ASSISTANT; accustomed to good-class Retail and Dispensing. W. Pickard, 3 West Kensington Terrace, W. 14 (opposite West Kensington Station).

ASSISTANT wanted for Dispensing and Counter; must have good references; business hours 9 a.m. to 7 p.m. three days per week, one at 8 p.m., one at 9 p.m., Thursday close 1 p.m. Call, write, or phone Chiswick 1428, Gould, 10 High Road, Chiswick, W. 4.

ASSISTANT required for Light Retail and Dispensing; one who has had some years' experience. Hillman Attwell, Pharmacist, Cranleigh.

ASSISTANT for good-class Light country Retail and Dispensing business in Kent; hours 8 a.m. to 6 p.m., Saturdays 8 p.m., Wednesdays 1 p.m., little Sunday or evening duty; pretty and healthy district. Apply, with particulars as to age, salary, and experience, to "Phenacetic" (3/16), Office of this Paper.

AT once, qualified Branch Manager for brisk, good-class Retail and Dispensing Pharmacy; must be energetic, experienced, gentlemanly and altogether reliable, and capable Window-dresser. Address full usual particulars (enclosing photo), stating salary required (outdoors), and giving recent references, to "Grimsby" (1/33), Office of this Paper.

CAPABLE unqualified Assistant required, must be reliable and energetic, for good-class country Retail. State age, height, experience, and salary required (outdoors) to Lacey, Chemist, Abingdon.

DISPENSER; qualified. Apply, with full particulars, to W. G. Jameson, o/o Curtis & Co., 48 Baker Street, W. 1.

EVENINGS; Assistant, qualified preferred; good Counterman; one required near Putney Bridge each Thursday, 6 till 8, and alternate Sunday, 6 till 8 p.m.; also near Baker Street, each Thursday, 2 o'clock, or not later than 5 till 8; alternate Sunday 6 till 8 p.m. Apply 3/28, Office of this Paper.

JUNIOR wanted; outdoors; Light Retail; easy hours. State age and other particulars, Young, Pharmaceutical Chemist, Chapel-en-le-Frith.

JUNIOR or Improver; accustomed to good-class Dispensing business; outdoors; time for study if desired; residential district near Birmingham. State full particulars and salary required to 4/30, Office of this Paper.

LADY Dispenser (outdoors) wanted for Medical practice in small country town on main line near London. Apply, stating age, experience, salary required, 1/27, Office of this Paper.

LADY Pharmacist to manage branch Pharmacy in country town near Dukeries; girl apprentice kept; comfortable compact shop; short hours; good salary to suitable woman. Usual particulars to E. J. Latham, M.P.S., Shirebrook, near Mansfield.

LADY Dispenser required immediately; must be good writer. Apply Mr. E. J. Jenkins, 80 Gloucester Road, South Kensington.

MANAGER for branch in small market town in South of England wanted (immediately). Kindly supply fullest particulars to 4/24, Office of this Paper.

MANAGER for neglected branch at present only doing £600, but easily capable of doing double; a progressive position for one able and willing to thoroughly and energetically look after business; every encouragement and assistance will be given to applicant selected; remuneration £2 10s. weekly, and one-third of net profits, together with use of modern house, containing four bed, two reception, one bathroom, usual offices, gas and electric light; situated in very healthy position. Please give fullest particulars in first letter, and, to save time, mention when free and when interview could be arranged at advertiser's expense. Apply 3/21, Office of this Paper.

MANAGER for first-class Family Dispensing and general business, with West-End experience; to live on premises. Full particulars to 3/31, Office of this Paper.

MANAGER or Managing Assistant, unqualified, married, to live over premises, 25 to 35 years of age, for good-class Retail and Dispensing, with Photography, in North London suburb; must have good references. Apply "H. E. T." (5/12), Office of this Paper.

PART-TIME Assistant wanted for good-class business. Please state hours at liberty and remuneration required, D. T. Davies, 567 Finchley Road, London, N.W.

PHARMACIST required; duties purely nominal. Apply 3/38, Office of this Paper.

QUALIFIED young man (single) required immediately; excellent opportunity for one who is anxious to make progress; must be energetic and absolutely reliable. "H. L." (2/901), Office of this Paper.

QUALIFIED N.H.I. 9-8, Saturday kept. State full particulars to this Paper.

QUALIFIED district permanency particulars to this Paper.

QUALIFIED capable Retail and Apply, with The Medical

QUALIFIED energetic full particulars Road, Lower

QUALIFIED business at Counter; berth, Sta 3/13, Office

QUALIFIED Apply

SAVORY service class Dispensing

SMART g Retail day or day man; photo Rock, Hastings

SMART y Perfum 146 Holborn

SMART J state Office of the

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UNQUALIFIED N.H.I. (5/13), Office

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Street, W.O. 1.—ication (lady or hours 9 to 5, 6 evenings weekly noon and for one Pharmacist.

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Assistant. State enclose copies of long Eaton, near

asing experience; Elizabeth Street,

ly or gentleman. salary required ornblow & Son,

od Cash business apply with refer- to commence, to ool.

WANTED, experienced Assistant (outdoors) for good-class Pharmacy; competent Dispenser, with knowledge of Photography; hours 8.30 to 7, Saturdays till 8, weekly half-holiday, no duty. Full particulars and salary required to Bernard W. Leefe, Pharmacist, Pinner, Middlesex.

WANTED, two unqualified Assistants, about 30; capable, energetic, with good-class Dispensing and Counter experience essential; outdoors. Apply, stating usual particulars, salary required, etc., to T. G. Stewart, Chemist, Bracknell.

WANTED, as early as possible, a qualified Manager for a very easy berth; hours easy, no Sunday duty, and the usual half-day; the place is situated in a healthy district, with beautiful scenery. Please state salary (outdoors) and other details, also when at liberty, "Salol" (4/36), Office of this Paper.

WANTED (at once), qualified Manager for good-class suburban business; good Counterman and Prescriber; permanent berth; no N.H.I. Apply, stating salary, 3/11, Office of this Paper.

WANTED, Junior or Improver in good-class Dispensing business. State experience and salary required, 5/15, Office of this Paper.

WANTED, a well qualified Assistant to take an active part in management of up-to-date business on the South Coast; knowledge of Optics and Photography; progressive position. State full particulars to 4/26, Office of this Paper.

£4 WEEKLY, with good prospects, for capable unqualified Assistant under 35; must be tactful Salesman, used to quick cash business, and have highest references; London, S.W. suburb. Please state age, height, and full particulars of experience (with photo if possible), to 4/39, Office of this Paper.

WHOLESALE.

ARGENTINE, URUGUAY, AND PARAGUAY—PERFUMERY.—Representative required by old-established first-class English Perfumery firm; must be thoroughly experienced in the trade in above markets. Apply by letter, in strict confidence, with full particulars of experience, and stating present and previous representations, to "Argentina," Box 219, S. H. Benson, Ltd., Atlantic House, Holborn Viaduct, E.C. 1.

A LARGE firm of Manufacturing Chemists require several young ladies for their Order department, who can read Wet and Dry Drug orders readily; typewriting experience desired, but not essential. Applications by letter, stating age, experience, and salary required, to 53/15, Office of this Paper.

A VACANCY will shortly occur for a man to take entire control of the Wholesale department of a large firm; to a man who really understands the despatch of Wholesale and Retail orders on a large scale, and who is capable to take entire charge, exceptional opportunities will be afforded. Reply "X. Y. Z." (50/31), Office of this Paper.

A WHOLESALE and Manufacturing house in Lancashire are anxious to engage a competent Analyst to undertake analysis of Chemicals, Galenicals, etc.; must have previous experience in this work; lady or gentleman. Give full particulars of age, experience, and remuneration required to 3/22, Office of this Paper.

ASSISTANT for Wholesale Druggists' Pill and Tablet Factory; one with experience, good position for a capable man. Apply 54/7, Office of this Paper.

BAISS BROS. & CO., LTD., require man for Laboratory; one accustomed to manufacture Galenicals. 175 Grange Road, Bermondsey, S.E. 1.

CELLARMAN required by London Wholesale Druggists; used to putting up Oils, Syrups, etc. State experience and wages required, 2/290, Office of this Paper.

CHEMIST, young, energetic, with all-round Manufacturing experience and knowledge of Tablet-making; capable of initiating and supervising extensions of Wholesale business. State experience and salary, 278/34, Office of this Paper.

FOR LONDON.—Unqualified Laboratory Hand; used to manufacture of Galenicals; state wages required; prospects good. Apply 1/22, Office of this Paper.

JUNIOR Invoice Clerk (female) required by London Wholesale house; must be able to use typewriter. State experience and wages required, 2/29, Office of this Paper.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

LABORATORY.—Capable male Assistant required by London Wholesale house, with experience in the manufacture of B.P. preparations, Ointments, Syrups, etc. Apply, stating age, experience, and salary required, 271/29, Office of this Paper.

LADY Shorthand Typist, with some years' experience in Drug Trade, wanted by Export Merchants. Apply, stating speeds, references, and salary required, to Miss Walker, 84 Fenchurch Street, E.C. 3.

MANAGER (qualified) required for Wholesale business in Birmingham; must be energetic and absolutely reliable. Apply with full particulars, stating salary required, to 4/4, Office of this Paper.

PACKER; £2 12s. 6d.; export; must be experienced. Apply, stating full particulars of previous engagement, to Dakin Bros., Ltd., Wholesale Druggists, 82 Middlesex Street, E. 1.

PROFITABLE side lines offered to Representatives already calling on Chemists and Retail Drapers. State ground covered and commission expected to 48/14, Office of this Paper.

QUALIFIED Chemist required to superintend Dry Floor, Poisons, etc. Apply, stating previous experience, salary, etc., to Southall Bros. & Barclay, Ltd., Wholesale Druggists, Lower Priory, Birmingham.

REQUIRED by London firm of high-class Manufacturing Chemists, a qualified Pharmacist, with good experience of wholesale and Retail Drug trade; one with a knowledge of markets, able to control travellers, and take sole charge of and organise sales department; sound progressive position for suitable man. Address, with fullest particulars, to "Cantab" (244/39), Office of this Paper.

SALCE MANUFACTORY.—An expert Manufacturer, who is fully conversant with modern processes and capable of producing a range of qualities comprising the highest-class goods and cheaper grades, is required to assume control of a factory about to be established. Correspondence, which will be treated in the strictest confidence, should state full particulars of experience, salary required, etc., and should be addressed in the first instance to "Bona-fide" (50/5), Office of this Paper.

SECRETARY and Office Manager wanted for large Proprietary business; qualified Accountant with experience of similar business preferred; state age, full particulars, and credential. Apply Veno Drug Co., Ltd., Veno Building, Manchester.

SULPHONATED OILS.—Wanted (immediately), Foreman or Chemist to supervise erection of new plant; only practical and experienced men need apply; latest principles adopted. Write with full particulars to Geo. Aspey & Son, Ltd., Oil, Soap, and Chemical Manufacturers, New Station Works, Leeds.

TABLET MAKER.—Man wanted to take charge of Compressed Tablet Plant; progressive salary and good prospects for the right man. Give full particulars of experience, age, and commencing salary required to T. H. Walton & Co., Ltd., Manufacturing Chemists, Batley.

TRAVELLERS wanted to take up quick selling side line (Toilet preparation); easily carried in pocket; on good commission. Apply 281/21, Office of this Paper.

TRAVELLER wanted by a firm of Manufacturing Druggists in the North Midlands; one acquainted with West Yorkshire and Lancashire preferred. Please forward full particulars as to experience, age, present salary, etc., 47/690, Office of this Paper.

TRAVELLERS required for various areas in England, to handle well-known Proprietary and Sundries amongst Chemists and Drug Stores; advantageous terms offered. Please apply, stating area covered, references, and full particulars to 277/3, Office of this Paper.

TRAVELLERS wanted by old-established firm, to carry a few good selling side lines in packed Medicinal Capsules; liberal commission; state ground covered. Apply 270/32, Office of this Paper.

WANTED, Junior Assistant; good appearance and address; one used to manufacture of Galenicals, to superintend Warehouse, and occasionally travel. Full particulars as to wages required, etc., in first letter, Thomas, 157 Cowbridge Road, Cardiff.

WANTED, an experienced Pillmaker and Coater. Apply R. Sumner & Co., Ltd., 40 Hanover Street, Liverpool.

WANTED (at once), experienced Representative for Lancashire and district; must be personally acquainted with buyers of packed goods and Wholesale houses in cheaper lines; good commission and expenses for first-class man. Apply 272/19, Office of this Paper.

WANTED by a firm of Wholesale Manufacturing Druggists in the North, a competent man to take entire charge of the Manufacturing Laboratory for the preparation of all Galenicals and manufactured articles kindred to the Chemist's business. In applying please give the fullest particulars as to age, experience, salary, etc., 47/69, Office of this Paper.

WANTED, first-class man to travel in Lancashire and Yorkshire for good Perfumery house, on part salary and commission basis; very liberal commission will be paid to really good man. Apply 50/311, Office of this Paper.

WANTED, first-class man to travel in the North of England for good Perfumery house, on part salary and commission basis; very liberal commission will be paid really good man. Apply 50/310, Office of this Paper.

WANTED, experienced Pricer for N.H.I. Prescriptions. Apply, stating full particulars, to "Pricer," 17 Bloomsbury Square, W.C.

WET COUNTER.—Junior Hand wanted. Apply, stating age, experience, and wages required, to Secretary, General Apothecaries' Company, 49 Berners Street, W. 1.

YOUNG man wanted to assist an older one in small Wholesale department; little experience, either Wholesale or Retail, only necessary. Apply, giving full particulars and salary required, to E. Bing & Son, Manufacturing Chemists, Canterbury.

YOUNG man, quick at figures, for calculating costs; preferably familiar with terms employed in Manufacturing Druggists' Laboratory. State age, wage, and previous employment to 54/50, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

BURMA.—Required for Rangoon, young qualified man to take charge of our Dispensing department; three years' engagement; good salary and prospects. Apply by letter to Rowe & Co., Ltd., 2-4 Carey Lane, London, E.C. 2.

CHINA AND STRAITS SETTLEMENTS.—Senior and Junior Assistants wanted in two old-established first-class businesses; qualified; unmarried preferred; age 25-30; good experience indispensable; advancing salary and good prospects; free passage out and home; both appointments are in good climates and pleasant surroundings. Apply Dakin Brothers, Ltd., 82 Middlesex Street, E.

JAPAN.—Wanted (immediately) as First Assistant, single, qualified, in first-class business at Kobe; easy hours; liberal salary; passage out and home. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

STRAITS SETTLEMENTS.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, dollars 250 per month, second and third years dollars 275 per month, fourth year dollars 300 (Straits dollar 2s. 4d.); splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. C. H., Burgoyne, Burbidges & Co., Ltd., East Ham, E. 6.

FEDERATED MALAY STATES.—Qualified Assistant required; unmarried; three years' agreement; passage paid out and home; must have good health; salary first year \$250, second year \$275, third year \$300 per month (dollar equal 2s. 4d.); short hours; preference given to one with knowledge of Photography and Optics, but not essential; advancement for good business men. Apply 47/21 Office of this Paper.

WANTED, qualified Assistant, single, age about 25, for British East Africa; knowledge of Photography and Optics a recommendation; three years' agreement; second-class passage paid out; commencing salary £25 per month. Apply, with full particulars, to "Zebra," c/o Tozer, Kemsley & Milbourn, Ltd., 84 Fenchurch Street, E.C. 3.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A QUALIFIED Chemist is now prepared to resume work. Send fullest particulars to 4/12, Office of this Paper.

ARMY disabled, discharged Chemist desires sitting work; cash desk, accounts, stock, etc.; fluent French. "Energetic," 39 Falmouth Road, London, S.E. 1.

A Locum, permanency; excellent references and experience. "Chemist," 122a Holland Road, Kensington, W. 14.

A S Manager; qualified; City, W., or S.E. districts; leaving through change of proprietorship. Apply 2/31, Office of this Paper.

A SSISTANT; disengaged; Locum or permanency; Senior. "Rhei," c/o Harrison, Wellington Street, Woolwich.

A SSISTANT wants good berth in South Coast town; good Dispenser, Counterman, and Window-dresser; age 28; married. "Medinol" (5/18), Office of this Paper.

BIRMINGHAM.—Qualified (31), single, requires position as Manager. "Demob," 119 Esme Road, Sparkhill.

BRISTOL district; 23; unqualified; good Dispenser, smart Counterman; thoroughly reliable; highly recommended; disengaged February 8th. "Rhei," Underfall Cottage, Cumberland Road, Bristol.

C LERICAL; evening work of any kind; terms moderate. Write "F. G." (279/20), Office of this Paper.

C ORPORAL Dispenser, R.A.M.C. (22½), shortly demobilised, good general knowledge of his business, reference former employer (4½ years), well educated, would like to arrange time for study later. Particulars, apply "Flavine" (279/18), Office of this Paper.

D ISENGAGED, 30 years' experience, first-class Counterman, well up generally, wishes London position (permanent); steady, active, reliable, well recommended. Fairweather, 286 Kingsland Road, London, E. 8.

D ISENGAGED 21st; Locum; ex-Army; 25 years' experience; good Manager, etc. Bedding, 10 Ponsonby Terrace, Westminster, London.

D ISENSER; 30; unqualified; London or provinces. "Disengaged," 72a The Chase, Clapham Common.

D ISENSER (lady) desires post immediately; Doctor or Chemist; thoroughly experienced; good Prescriber. Apply 6/17, Office of this Paper.

D ISENSER-BOOKKEEPER (lady), tall, requires post in Hospital or Doctor; London or South-Eastern side. Apply 2/21, Office of this Paper.

E XPERIENCED Managing Assistant; disengaged; temporary or permanent; accustomed to management, high-class or keen Store trading; first-class references; active, modern, thoroughly up to date. Apply 281/26, Office of this Paper.

H ALL Student desires evening post with Doctor or Chemist; previous experience. "B.," 12 Melbourne Road, Merton Park, S.W. 19.

I MPROVER seeks berth; good knowledge of Retail and Photography, fair knowledge of Dispensing; age 19; height 5 ft. 9 in.; just discharged from Army. Apply R. H. Rankin, 6 Station Road, Midsomer Norton, near Bath.

J UNIOR Assistant (lady); aged 20; over four years' first-class experience; disengaged shortly; well recommended; trustworthy and industrious. "Lady," c/o Keeble, Chemist, Liss, Hampshire.

L ADY Dispenser, with Hall certificate, requires position with Chemist or Doctor; age 21. Kindly state salary to 281/24, Office of this Paper.

L ADY Dispenser (qualified), Bookkeeper, Typist, desires post with Doctor, Institution, or high-class Chemist; 11 years' experience; excellent references. Apply 1/19, Office of this Paper.

L ADY Dispenser (Hall qualification) desires post; Bournemouth district; preferably part-time. Apply 1/21, Office of this Paper.

L ADY Dispenser, Hall qualification, experienced, desires post with Doctor (good-class practice); Bookkeeping if required. Write full particulars, stating salary and hours, 2/2, Office of this Paper.

L ADY Dispenser (Hall), three years' experience, desires post in London; quick and accurate. Miss Myers, 34 Broadway, London Fields, E. 8.

L ADY Dispenser (Hall), experienced, requires post with Doctor (no bookkeeping); Hospital Assistant or Institution; S.E. or S.W. district. Peto 126 Oakfield Road, Penge.

L ADY Dispenser (Hall certificate) requires post with Doctor near N. London, or Locum. Davis, St. Saviour's Church House, 56 Hyde Road, Hoxton.

L ADY Dispenser (Hall); experienced; Radiography; Hospital or Institution. 2 Selwyn Road, Upton Manor, E. 13.

L ADY (Hall), 19, desires engagement as Dispenser with first-class Chemist. Farmer, 38 Perth Road, Finsbury Park, N. 4.

L ADY Dispenser (Hall certificate) desires post; free now; Doctor, Hospital, Chemist; no Counter work; good references. Miss Park, 54 Lansdowne Road, S.W.

L ADY Dispenser (Hall), experienced, desires re-engagement owing to Hospital closing; Doctor, Hospital, or Institution; excellent testimonials. Miss Leeder, 19 Philip Road, Ipswich.

L ADY Dispenser-Bookkeeper (32), Hall, desires post with Doctor near London or country. Apply 5/8, Office of this Paper.

L ANCASHIRE or surrounding district; Locum or permanency; Manager or otherwise; experienced; 47; married; lately demobilised; interview preferred. Gray, M.P.S., 40 Bottomgate, Blackburn.

L OCUM Tenens; disengaged February 22nd; experienced. "L. T.," 94 Llewellyn Street, Pentre, Glam.

L OCUM; disengaged until 25th. Lynu, 2 Lodge, Sinclair Mansions, W. 12.

L OCUM or permanency; 43; qualified; disengaged 24th. "Chemicus," 8 Princess Road, West Ealing, W.

L OCUM or Temporary Manager; qualified; country; 52; disengaged till April; first-class experience and references; energetic; Optics. Dewey, 4 Montague Gardens, Wallington, Surrey.

L OCUM; qualified; London or provinces; disengaged. Cito, 4 Blenheim Road, N.W. 8.

L OCUM; wide experience; well recommended; highest references. Apply 4/32, Office of this Paper.

M ANAGER; Locum or permanent; qualified; experienced; highest testimonials; 50. "A.," 51 Salisbury Gardens, Hull.

MANAGER; 42; qualified; Locum or permanency; disengaged; Dental Operator and Refractionist. Write "M.P.S.," c/o Robertson, 163 Camden Road, N.W. 1.

MANAGER (elderly, active) desires charge of branch; accessible to Northern London; could furnish house. Wright, 20 Glenloch Road, N.W. 3.

MANAGER (qualified) seeks berth; Loudon or near; good all-round experience; married; tall; accustomed to high-class, modern, busy trade. "Chemist," 26 Wyatt Park Road, Streatham Hill, S.W.

MANAGER; unqualified (branch); good Prescriber; best experience; highest references. "Chinosol" (4/320), Office of this Paper.

MANAGER; qualified; experienced, energetic, trustworthy; best references, terms, and particulars, "J." (2/40), Office of this Paper.

MANAGER, with view to interest or succession; energetic and highly successful; highest references. Apply 4/29, Office of this Paper.

MINOR (24) requires situation; Sheffield or Manchester preferred. J. R. Lee, New Mills, Stockport.

PART-TIME, M.P.S. (lady), requires morning work in a Pharmacy within easy distance of North Finchley; good Dispenser. Apply, with particulars of salary, to "D. S.," 127 Camden Street, N.W. 1.

PART-TIME work; 1 to 5 p.m. daily. "W.," 28 Park Grove, West Ham.

PHARMACIST desires Managership; Southern Counties; well recommended; good commercial ability; keen Buyer, Bookkeeper, and Stockkeeper; Photography and Optics; adequate capital to take a financial interest in or to succeed to business at a future date if proprietor so desires, but not essential. Particulars, salary, etc., to 1/39, Office of this Paper.

PHARMACIST (demobilised) requires immediate re-engagement as Manager; one where energy and business ability will be appreciated; Lancashire preferred. Stopforth, 2 Douglas Road, Wigan.

PHARMACIST (29) would act as Manager or Assistant in good business, with view to early purchase; cash terms; excellent references; South. Apply 5/14, Office of this Paper.

QUALIFIED; 26; single; eight years' experience; excellent references; Cardiff (or near) preferred. Apply 1/28, Office of this Paper.

QUALIFIED lady Pharmacist, seven years' experience, desires Locums for the coming season. Apply, stating terms, 281/5, Office of this Paper.

QUALIFIED Manager; active, capable, and reliable; 20 years' experience London and provincial in all branches. Apply E. J. Davies, 50 Maesygraig Street, Giffach, Bargoed.

QUALIFIED Chemist (27) desires position as Manager; Wholesale or Retail (London); first-class business experience. Kindly state salary and hours to "G. W.," 24 Waltherton Road, Maida Hill, W. 9.

QUALIFIED Assistant, at present in the Army, requires berth for demobilisation; Dispenser or Counter. Apply 277/1, Office of this Paper.

QUALIFIED; 44; outdoors; married. "S.," 191 Croxted Road, West Dulwich, S.E. 21.

QUALIFIED; 35; married; been acting as substitute (Manager) during war; abstainer; good general experience; disengaged soon. C. E. Beer, 54 Buckleigh Road, Streatham, S.W.

QUALIFIED Chemist, elderly, experienced, open manage small town-country business; locum; permanency. Apply 6/13, Office of this Paper.

QUALIFIED, with thoroughly sound business and professional training, desires Managership with view to partnership and/or succession; accustomed to good-class family business. Apply 3/24, Office of this Paper.

QUALIFIED Manager (29) desires position; with view to succession preferred; Eastern Midlands; small town, about 20,000 inhabitants; single, energetic, capable. Give full particulars, in confidence, to 4/6, Office of this Paper.

SENIOR, married, 6 ft., 33 years, excellent Salesman, Dispensing, Photography, Dental Operator, Fillings, Scalings, Impressions, desires post with Chemist who has Dental practice; good salary required. Toes, 16 Brodia Road, Stoke Newington, London, N.

SUPERVISOR or nominal duties; certificate; at liberty. Apply 5/11, Office of this Paper.

UNQUALIFIED as Branch Manager or Senior; married; 44; highest references; at liberty end of March. "Farrow," 58 Milton Road, Belvedere, Kent.

UNQUALIFIED Assistant (disengaged); good all-round experience; knowledge of Photography, good Window-dresser. "W. B.," 44 Yeldham Road, London, W. 6.

UNQUALIFIED, 25, demobilised, desires berth; good-class experience; capable of taking charge. State salary, "N. F.," 22 Chatsworth Road, West Norwood, S.E. 27.

UNQUALIFIED; 39; experienced; Dispensing, Counter work, Photography. "G.," 17 Llantrisant Road, Pontyclun, Glam.

YOUNG, energetic, qualified, desires situation with view to succession in good country business, with scope for development; good references, experience, etc.; partnership entertained. Apply 275/33, Office of this Paper.

31, M.P.S., married, desires change; Manager six years successfully in present situation; highest references; Photography; partnership, or view to succession entertained. State salary, 280/37, Office of this Paper.

WHOLESALE.

ADVERTISER desires suitable post with Manchester or Liverpool Wholesale house; 16 years' experience of the trade as Costs Clerk, Buyer's Assistant, etc.; thoroughly conversant with best markets for Drugs, Chemicals, and Proprietaries; can furnish excellent references, and commence duties in a month's time; salary required £4 per week. Apply 2/18, Office of this Paper.

ADVERTISER (Ph.C.) desires post as Works Chemist or Laboratory Manager; London preferred; 20 years' Manufacturing experience, Galenicals, Chemicals, Analysis, etc. H. Johnson, 12 Willoughby Park Road, Tottenham, N. 17.

ANALYTICAL CHEMIST (F.I.C.), with wide and exceptional experience in Drugs, fine Chemicals, Galenicals, and Pharmaceutical preparations, English and Continental, marked literary ability, and expert knowledge of French and German, seeks permanent and lucrative position; confidential. Apply "W. J." (254/1), Office of this Paper.

AS Traveller; good line wanted; salary, commission. Reilly, 81 Churchfield Road, Acton.

CHEMIST (Major qualification) desires post; Laboratory or Works Manager; London preferred; Analysis, Assay, Bacteriology, Research, Galenicals, Pills, etc., Toilet articles, own formulae; young; excellent experience and references; used to staff control; position where initiative and responsibility are valued. Apply "D." (6/12), Office of this Paper.

CHEMIST'S Assistant; 10 years' experience Wet and Dry Counters; capable of managing. Write "J. D. D.," 64 Sisters Avenue, Clapham, S.W. 11.

DEMOBILISED, Salesmanship Diploma, International Correspondence Schools, requires good lines to offer Chemists and Grocers in the Bradford district on commission basis. Denby, 14 St. Augustine's Terrace, Bradford.

DEMOBILISED (30) desires post in Wholesale house; ten years' Retail experience; over three years' charge of Medical Stores, France. Apply "Essex" (1/34), Office of this Paper.

EXPORT.—What offers? Smart all-round practical man, thoroughly conversant with above, supervising packing, controlling staff, etc., over 20 years' experience, desires post, Senior Warehouseman or Manager; London preferred. "Competent" (281/23), Office of this Paper.

LABORATORY.—Young man seeks position as Assistant; good knowledge of analysis of Food and Drugs. "Chromate," 26 Wyatt Park Road, Streatham Hill, S.W. 2.

LADY, highly experienced and very capable, desires appointment to introduce special preparations to London Doctors; good connection; smart appearance. Apply 2/3, Office of this Paper.

PATH., Bact., Laboratory Assistant, demobilised shortly; good all-round training; experienced in examining specimens. Corporal Barnes (Staff), Central Military Hospital, Eastbourne.

PH.C., 28 years, four years' Army service, desires post with Wholesale firm; good education and excellent business ability. Apply "E. M." (275/28), Office of this Paper.

QUALIFIED, Square, Major, best experience London Retail, Galenicals, some Analysis, requires position for obtaining experience of Wholesale Manufacturers, Analytical or similar line. Apply 281/14, Office of this Paper.

QUALIFIED, 43, wishful to represent good house, or indoors. "Chemicus," 8 Princess Road, West Ealing, W.

REPRESENTATIVE requires engagement, London, or would journey; Drugs, Sundries, or any part of the trade. "G. L." (1/31), Office of this Paper.

REPRESENTATIVE Pharmacist, 20 years' varied experience, reliable, energetic, desiring change, wishes position as Representative of good Wholesale house. Apply 258/10, Office of this Paper.

REQUIRED by gentleman, position as Representative; call on Chemists, Doctors, Hairdressers, and Stores, or Vets. and Farmers; Devon and Cornwall. "A. C." (279/19), Office of this Paper.

WELL-EDUCATED lad desires situation in Laboratory; age 16. State wages and hours, Stanley, 22 Thorpebanke Road, Shepherd's Bush, W.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

NEW ZEALAND, AUSTRALIA.—Qualified Chemist, with exceptional and varied experience in the management of both Retail and Wholesale, desires position where such knowledge, combined with initiative and ability, is required; could invest £800-£1,000. Apply 3/39, Office of this Paper.

MISCELLANEOUS.

MAGNESIA CARBONATE (heavy); good quality; about 10 tons in bags, delivered London limits. Samples and prices on application from C. Phillips, Jones & Co., 6 Lloyd's Avenue, E.C.

NATURAL Wool Fat, in barrels, good quality, to offer for immediate delivery; about 3 tons. Apply 47/29, Office of this Paper.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop Fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

WHAT offers for about 5½ tons high-grade Soap Powder, suitable for Toilet purposes; contains about 20 per cent. Tale, slight violet odour; samples on request. Write "S. P.," Box 250, Spottiswoode's, Atlantic House, Holborn Viaduct, E.C. 1.

BOTTLES; 100 gross 1-oz. Round Essence Bottles, flint, super quality, 18s. per gross; whole or part delivered London. Barnett, 97 Southwark Park Road, S.E.

WATSONS' OF SHEFFIELD

Want Folding Kodaks of all descriptions. At least two-thirds original retail price given for approved models.

For a short time we are willing to buy Kodaks of all descriptions, until fresh supplies reach this country. If you have any you want to dispose of, send them along to us without waiting to get into communication, and we will make you an offer by return.

Cash immediately. Goods returned carriage paid if no business.

WATSONS' (Proprietors, Wallace Heaton, Ltd.), THE CAMERA HOUSE.

New Address: 19 CHANCE ALLEY, SHEFFIELD.
Telephones: 27 and 255.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.

WHITE PHIALS, plain or teaspoons.
1 ounce. 1½ ounce.

BLUE LOTION BOTTLES, all sizes.
CORKS, Superior Quality. No advance in price.

6 and 8 ounce ... 1s. per gross, in 6 gross bags.
Vials ... 10d. per gross, in 3 gross bags.

Delivered free within 7 miles, and to certain stations. Particulars on application.

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106 Midland Road, St. Pancras, London, N.W. 1,
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DENTAL.

FOUR Bridge Showpieces. R. M. Lamb, 123 West End Lane, London.

DRUGS AND CHEMICALS.

ATROPINE Sulphate, 1 drachm, £1 or best offer. Bailly, Chemist, Margate.

ABOUT one pound English Oil of Caraway, 12s. 6d. Bray, Paisley Road West, Glasgow.

CASTOR Oil; 3 dozen 5-oz. bottles first pressing; 7s. dozen. "M." 41 Neweome Street, S.E. 1.

AMYLEN. Hydraz, 1 lb., 10s. 6d.; Theobrom. Sod. Salicyl., 1 oz., 3s.; Benzozol (Guaiacol, Benzoas), 3iv., 5s.; Pelletierine Tannate, 60 gr., 10s.; offers for 1 oz. Novatophan. Dunnet, Chemist, Falkirk.

OPTICAL AND PHOTOGRAPHIC.

THORNTON PICKARD Reflex, 1 plate; Ross Telecentric, 5.4 lens; 3 double Dark Slides; Mackenzie Wishart Slide, 12 envelopes; Film Pack Adapter; leather case; all in good condition. What offers the lot? Henderson, Chemist, Kirkcudbright.

MISCELLANEOUS.

GARDNER'S Rapid Sifter; size C. Apply 2/20, Office of this Paper.

56-LB. Tin of Honey for sale at 2s. lb. Cuxson, Gerrard & Co., Ltd., Oldbury.

20 10-gal. Cylindrical Drums, with 4-in. metal screw caps; excellent condition; 2s. each. Jones, Chemist, Sutton Coldfield.

1 GROSS Lady Marie's Shampoo Powder, 3d. (high-class packing); 15s. per gross, carriage paid. Harvey, Chemist, Knap-hill, Surrey.

ARTIFICIAL Leg (right), best make, as Maw's fig. G. 36; 20 lb. Stearin Wax; 14 lb. Potas. Oxalat. Neutral; 1 doz. Vichy Water, quite new. Offers to Shillecock, Chemist, Bromley, Kent.

TO Wholesale Druggists or Dealers in Photographic Chemicals, about 8 or 9 gross used Amber and Blue Bottles, wide mouthed and narrow mouthed, varying sizes from 1 oz. to 40 oz., many stoppered; 12s. per gross to clear. Taylor, 67 Mortimer Street, London, W. 1.

WANTED.

SALICIN, B.P. Quotation and quantity offered to 273/6, Office of this Paper.

CASH Till; must be small. State price and description, McKee, 114 Churchfield Road, Acton.

SMALL Stone Mill to grind up to 10 lb. Fullwood & Bland, Rennet Works, Ellesmere, Salop.

BOTTLES; new; all sizes and styles. State prices and quantities offered, 49/40, Office of this Paper.

"UNITED States Dispensary," American Formula book; state date. Russell, 27 Store Street, W.C. 1.

WEIGHING Machine; good condition; graduated ounces; as Maw's, B3831/R. Fielding, 115 Tritonville Road, Dublin.

ROSEMARY Leaves in lots; not less than 56 lb. Price to Ashmore's International Pharmacy, 21 Dawson Street, Dublin.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

THREE bent-glass Counter Cases, with slope stand at back. State length and lowest price, carriage paid, Clarke, Chemist, High Street, Newport.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

SECOND-HAND Machinery, line Disintegrators, Dressing Machine, edge runners for grinding purposes; would consider buying going concern outright. Apply 3/37, Office of this Paper.

1-0Z. and 3-oz. Panel Flints, W.F.; also 1-oz. and 1-oz. Vaseline Jars, Face-powder Boxes, Tablet Bottles, and useful sundries. State price with sample, Organic Medicine Co., 10 Park Lane, Leeds.

LARGE quantities of finely ground Kieselguhr or Fossil Meal; must be of light gravity and colour, and as free as possible from clay and chalk. Quote full details and price, along with samples, to Turner Brothers Asbestos Co., Ltd., "Purchase" Department, Rochdale.

SHOP Fittings required; 6 ft. Wall Case, 11 ft. 6 in. range of drawers (glass labels), with wall fixture; 6 ft. Dispensing Screen, 7 ft. 6 in. Counter, 8 ft. Window Enclosure with fittings, 12 dozen Shop Rounds, recess labelled. State lowest price to "Cash" (3/10), Office of this Paper.



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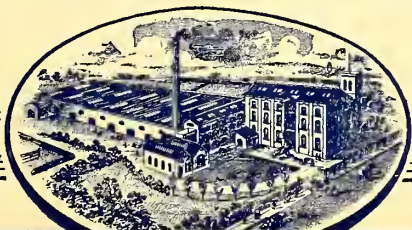
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